

## SUBJECT INDEX TO VOLUME 75

Entries from Journal departments are identified as follows: Book Reviews—(BR); Case Reports—(CR); Clinical Investigations—(CI); Correspondence—(CO); Editorial Views—(EV); Laboratory Investigations—(LI); Laboratory Reports—(LR); Review Article—(RA); Medical Intelligence—(MI); Special Article—(SA); Reports of Scientific Meetings—(SM).

### A

Abdominal surgery, *See under Surgery*

Abscess, *See under Complications*

Acetylcholine, *See under Parasympathetic nervous system*

$\alpha_1$ -Acid glycoprotein, *See under Pharmacokinetics*

Additivity, *See under Interactions*

Adenosine, *See under Pharmacology*

Adrenal hormones, *See under Hormones*

Adrenal medulla, *See under Kidney*

$\alpha_2$ -Adrenergic agonists, *See under Sympathetic nervous system;  $\alpha_2$ -adrenergic agonists*

Adrenergic agonists, *See under Sympathetic nervous system*

$\alpha_1$ -Adrenergic antagonists, *See under Sympathetic nervous system*

$\alpha$ -Adrenergic receptor agonists, *See under Sympathetic nervous system*

$\alpha_2$ -Adrenergic receptors, *See under Receptors*

$\alpha$ -Adrenergic receptors, *See under Receptors*

Adrenergic receptors, *See under Receptors*

Advertising

truth in

as responsibility of the *Journal of Anesthesiology* (CO) [Atkins], 547

as responsibility of the *Journal of Anesthesiology* (CO) [Zapol], 547

$\alpha_2$  Agonists, *See under Receptors*

Air embolism, *See under Embolism*

Air entrainment, *See under Complications*

Airway

bronchial rings

in study of bronchodilation and airway epithelium (LI) [Sayiner, Lorenz, Warner & Rehder], 75

bronchial segments

canine

in study of bronchodilation and airway epithelium (LI) [Sayiner, Lorenz, Warner & Rehder], 75

complications, *See under Complications*

epithelium-derived relaxing factor

in study of bronchodilation and airway epithelium (LI) [Sayiner, Lorenz, Warner & Rehder], 75

extubation

intractable pharyngeal spasm following, in undiagnosed tetanus (CR) [Baronia, Singh & Dhiman], 1111

in management of difficult adult airway (MI) [Benumof], 1087

local anesthesia

in management of difficult adult airway (MI) [Benumof], 1087

management

difficult, in adult (MI) [Benumof], 1087

obstruction

upper

another cause of (CO) [Hatanaka & Yamashita], 1117

infrequently leading to malpractice suits (CI) [Cheney, Posner & Caplan], 932

after three sufentanil-pancuronium induction sequences (CI) [Horrow, Abrams, Van Riper, Lambson & Storella], 969

pressure

after three sufentanil-pancuronium induction sequences (CI) [Horrow, Abrams, Van Riper, Lambson & Storella], 969

trachea

constriction

guinea pigs, in response to oxybarbiturates and thiobarbiturates (LI) [Curry, Lenox, Spannhake & Hirshman], 679

extubation

transparent dressing is useful for secure fixation of endotracheal tube (CO) [Mikawa, Maekawa, Goto, Yaku & Obara], 1123

tracheal

extubation

in children (CO) [Jacka & Froese], 546

in children (CO) [Pounder, Blackstock & Steward], 546

tracheal stenosis

congenital

use of laryngeal mask in child with (CR) [Asai, Fujise & Uchida], 903

trauma

infrequently leading to malpractice suits (CI) [Cheney, Posner & Caplan], 932

Airway pressure, *See under Airway; Ventilation*

Alarms, *See under Equipment*

Alfentanil, *See under Analgesics, opioid; Anesthetics, intravenous; Metabolism*

Allergy

anaphylaxis

during anesthesia (CO) [Levy], 712

during anesthesia: radioimmunoassays to determine etiology and drugs responsible in fatal cases (CR) [Fisher, Baldo & Silbert], 1112

American Society of Anesthesiologists, *See under Organizations*

Amiodarone, *See under Sympathetic nervous system, sympatholytic agents*

Ampules, *See under Equipment*

Amrinone, *See under Pharmacology*

Analgesia

epidural

does not obscure diagnosis of compartment syndrome from prolonged lithotomy position (CR) [Montgomery & Ready], 541

opioid

does not obscure diagnosis of compartment syndrome from prolonged lithotomy position (CR) [Montgomery & Ready], 541

patient-controlled

machine tampering, "air in the syringe" (CR) [Stevens, Cohen, Kanzaria & Dunn], 697

postoperative

alfentanil for: epidural *versus* intravenous routes (CI) [Camu & Debucquoy], 171

epidural morphine is safe on surgical wards (CI) [Ready, Loper, Nessly & Wild], 452

epidural *versus* intravenous fentanyl for (CI) [Salomäki, Laitinen & Nuutinen], 790



does not obscure diagnosis of compartment syndrome from prolonged lithotomy position (CR) [Montgomery & Ready], 541  
oral transmucosal fentanyl for (CI) [Streisand, Varvel, Stanski, LeMaire, Ashburn, Hague, Tarver & Stanley], 223  
and isoflurane and dexmedetomidine in spinal cord (LI) [Savola, Woodley, Maze & Kendig], 489  
and spinal pharmacology of hyperesthesia (LI) [Yamamoto & Yaksh], 817

## Analgesics

### epidural

#### fentanyl

for analgesia after thoracotomy, in comparative study (CI) [Salomäki, Laitinen & Nuutinen], 790

#### fentanyl

pharmacokinetics of, effects of epidural clonidine on, in postoperative patients (CI) [Rostaing, Bonnet, Levron, Vodinh, Pluskwa & Saada], 420

### intrathecal

#### morphine

as cause of herpes simplex should be scratched out (CO) [Abouleish], 919

as cause of herpes simplex should be scratched out (CO) [Pennant & Wallace], 920

and reactivation of oral herpes simplex (CO) [Pennant & Wallace], 167

and somatosensory evoked potentials in awake humans (CI) [Schubert, Licina, Lineberry & Deers], 401

### intravenous

#### fentanyl

for analgesia after thoracotomy, in comparative study (CI) [Salomäki, Laitinen & Nuutinen], 790

### morphine

or nalbuphine, after thoracotomy (CI) [Etches, Sandler & Lawson], 9

in study of intravenous clonidine for postoperative analgesia (CI) [Bernard, Hommeril, Passuti & Pinaud], 577

### nalbuphine

or morphine, after thoracotomy (CI) [Etches, Sandler & Lawson], 9

### opioid

#### alfentanil

acute tolerance to, is not related to their potency (LI) [Kissin, Brown & Bradley], 813

epidural versus intravenous, for postoperative pain (CI) [Camu & Debucquoy], 171

#### butorphanol

behavioral and histopathologic effects following intrathecal administration of, in sheep (LI) [Rawal, Nuutinen, Raj, Lovering, Gobuty, Hagardine, Lehmkuhl, Herva & Abouleish], 1025

#### fentanyl

and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827

#### morphine

acute tolerance to, is not related to their potency (LI) [Kissin, Brown & Bradley], 813

and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827

#### nalbuphine

behavioral and histopathologic effects following intrathecal administration of, in sheep (LI) [Rawal, Nuutinen, Raj, Lovering, Gobuty, Hagardine, Lehmkuhl, Herva & Abouleish], 1025

### sufentanil

acute tolerance to, is not related to their potency (LI) [Kissin, Brown & Bradley], 813

behavioral and histopathologic effects following intrathecal administration of, in sheep (LI) [Rawal, Nuutinen, Raj, Lovering, Gobuty, Hagardine, Lehmkuhl, Herva & Abouleish], 1025

pancuronium induction sequences, ventilatory compliance after (CI) [Horrow, Abrams, Van Riper, Lambson & Strella], 969

and burning pain of Guillain-Barré syndrome (CO) [Ennis], 913

and burning pain of Guillain-Barré syndrome (CO) [Warfield], 914

and patient-controlled analgesia machine tampering (CR) [Stevens, Cohen, Kanzaria & Dunn], 697

### opioid(s)

#### intrathecal

respiratory depression following (CO) [Eisenach], 712

### opioids

#### morphine

is safe on surgical wards (CI) [Ready, Loper, Nessly & Wild], 452

pharmacokinetics of, effects of epidural clonidine on, in postoperative patients (CI) [Rostaing, Bonnet, Levron, Vodinh, Pluskwa & Saada], 420

Anaphylactoid response, *See under Immune response*

Anaphylaxis, *See under Allergy*

### Anatomy

#### neck

##### extension

in management of difficult adult airway (MI) [Benumof], 1087

##### flexion

in management of difficult adult airway (MI) [Benumof], 1087

### spine

epidural (CI) [Hogan], 767

lumbosacral anomalies of, congenital, epidural analgesia in (CR) [Cooper & Smith], 370

Anemia, *See under Blood; Complications*

### Anesthesia

anaphylaxis during (CO) [Levy], 712

### cardiac

#### vascular

and right- and left-arm blood pressure discrepancies in vascular surgery patients (CI) [Frank, Norris, Christopherson & Beatrice], 457

during cardiac surgery, pharmacokinetics of amrinone and (CI) [Bailey, Levy, Rogers, Szlam & Hug], 961

external compression of abdominal aorta reversing Tetralogy of Fallot cyanotic crisis during (CR) [Baele, Rennotte & Veyckemans], 146

### cardiovascular

and cerebral blood flow response to carbon dioxide during hypothermic bypass (LI) [Hindman, Funatsu, Harrington, Cuthbert, Dexter, Todd & Tinker], 662

comparison of desflurane and isoflurane in (CI) [Thomson, Bowring, Hudson, Frai & Rosenbloom], 776

and hemodynamic actions of D- and L-medetomidine (LI) [Schmeling, Kampine, Roerig & Warltier], 499

### depth

#### awareness

therapeutic suggestions for improved, during general anesthesia (CI) [Block, Ghoneim, Ping & Ali], 746

- learning
  - therapeutic suggestions for improved, during general anesthesia (CI) [Block, Ghoneim, Ping & Ali], 746
- pentobarbital
  - influence of cryogenic brain injury on (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634
- recall
  - therapeutic suggestions for improved, during general anesthesia (CI) [Block, Ghoneim, Ping & Ali], 746
- general**
  - central thermoregulatory inhibition by (EV) [Sessler], 557
  - and finger blood pressure and controlled hypotension (CI) [Epstein, Bartkowski & Hufnagle], 796
  - and isoflurane and dexmedetomidine in spinal cord (LI) [Savola, Woodley, Maze & Kendig], 489
  - spastic torticollis during (CR) [Stemp & Taswell], 365
  - versus* epidural and general anesthesia for abdominal surgery (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611
- neonatal**
  - in premature infants, association of postoperative apnea, airway obstruction, and hypoxemia (CI) [Kurth & LeBard], 22
- neurosurgical**
  - and quadraplegia in patient with cervical spondylosis after, in prone position (CR) [Deem, Shapiro & Marshall], 527
- obstetric**
  - and fetal heart rate after epidural anesthesia (CI) [Loftus, Holbrook & Cohen], 406
  - magnesium sulfate and vasopressors (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010
  - management of congestive heart failure during, in patient with myotonic dystrophy (CR) [Dodds, Haney & Appleton], 907
  - systemic toxicity of ropivacaine during ovine pregnancy (LI) [Santos, Arthur, Pedersen, Morishima, Finster & Covino], 137
- outpatient**
  - desflurane for (CI) [Hemelrijck, Smith & White], 197
- pediatric**
  - and cause for hemodynamic instability during hepatic tumor resection (CO) [Riegle, Hirshberg & Ternberg], 381
- Larsen's syndrome
  - anesthetic considerations in (CR) [Stevenson, Hall & Palmieri], 142
- neonates**
  - and anesthesiologists assessment of changes in neonatal pulmonary compliance by "educated hand" (LR) [Spears, Yeh, Fisher & Zwass], 693
  - aids for fiberoptically guided intubation in (CO) [Wilton], 549
  - and anemia in pediatric day-surgery patients (CI) [Hackmann, Steward & Sheps], 27
  - contribution of nitrous oxide to isoflurane MAC in children (CI) [Murray, Mehta & Forbes], 186
  - dose-response to atropine in (CI) [Palmisano, Setlock, Brown, Siker & Tripuraneni], 238
  - and educated hand of pediatric anesthesiologist (EV) [Steward], 555
  - epidural, in congenital lumbosacral spine anomalies (CR) [Cooper & Smith], 370
  - external compression of abdominal aorta reversing Tetralogy of Fallot cyanotic crisis during (CR) [Baele, Rennotte & Veyckemans], 146
  - laryngeal mask for fiberoptic airway endoscopy in (CO) [Mae-kawa, Mikawa, Tanaka, Goto & Obara], 169
  - minimum alveolar concentration of desflurane and hemodynamic responses in (CI) [Taylor & Lerman], 975
  - optimum concentration of bupivacaine for (CI) [Gunter, Dunn, Bennie, Pentecost, Bower & Ternberg], 57
  - phenol motor point blocks in children: plasma concentrations and cardiac dysrhythmias (CR) [Morrison, Matthews, Washington, Fennessey & Harrison], 359
  - and postintubation croup in children (CO) [Litman & Keon], 1122
  - postoperative apnea in full-term infant (CO) [Karayan, La-Coste & Fuscicardi], 375
  - in premature infants, association of postoperative apnea, airway obstruction, and hypoxemia (CI) [Kurth & LeBard], 22
  - using sevoflurane, malignant hyperthermia, in child with central core disease (CR) [Otsuka, Komura, Mayumi, Yamamura, Kemmotsu & Mukaida], 699
  - spinal anesthesia in infants: could L5-S1 approach be safer? (CO) [Busoni & Messeri], 168
  - spinal anesthesia in infants: could L5-S1 approach be safer? (CO) [Orr & Haberkern], 169
  - for strabismus surgery, effect of propofol on postoperative vomiting after (CI) [Watcha, Simeon, White & Stevens], 204
  - tracheal extubation in (CO) [Jacka & Froese], 546
  - tracheal extubation in (CO) [Pounder, Blackstock & Steward], 546
- preoperative evaluation**
  - automated interview in, *versus* personal interview (CI) [Lutner, Roizen, Stocking, Thisted, Kim, Duke, Pompei & Cassel], 394
- regional**
  - effects on peripheral nerve blood flow on (LI) [Partridge], 243
  - lumbar epidural (CI) [Hogan], 767
  - phenol motor point blocks in children: plasma concentrations and cardiac dysrhythmias (CR) [Morrison, Matthews, Washington, Fennessey & Harrison], 359
- thoracic**
  - epidural nalbuphine or morphine after thoracotomy (CI) [Etches, Sandler & Lawson], 9
- urologic**
  - and life-threatening hypoxemia after lithotripsy (CR) [Malhotra, Rosen & Slepian], 529
  - anaphylaxis during (CO) [Eisenach], 712
  - "do-not-resuscitate" orders during (CO) [Daly & Seravalli], 709
  - "do-not-resuscitate" orders during (CO) [Truog], 710
- Anesthesia equipment, See under Equipment**
- Anesthesia machines, See under Equipment**
- Anesthesiologist(s)**
  - pediatric, "not-so-educated hand" of (EV) [Steward], 555
- Anesthesiology**
  - application of molecular genetics to (CO) [Lightstone], 1126
- Anesthetic techniques**
  - balanced**
    - neuromuscular effects of ORG9426 in patients receiving (CI) [Foldes, Nagashima, Nguyen, Schiller, Mason & Ohta], 191
  - bronchoscopy**
    - fiberoptic
      - in pediatric anesthesia, laryngeal mask for airway for CO [Mae-kawa, Mikawa, Tanaka, Goto & Obara], 169
  - caudal**
    - epidural
      - optimum concentration of bupivacaine for (CI) [Gunter, Dunn, Bennie, Pentecost, Bower & Ternberg], 57
  - celiac plexus block**
    - treatment of benign chronic abdominal pain with (CR) [Hastings & McKay], 156



**closed-circuit**

- system model for (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345
- system model for, clinical evaluation of (CI) [Lerou, Dirksen, Beneken Kolmer, Booi & Borm], 230

**continuous infusion**

- of propofol for strabismus surgery, and emesis (CI) [Watcha, Simeon, White & Stevens], 204

**epidural**

- for alfentanil infusion for postoperative pain (CI) [Camu & Debucquoy], 171
- n-butyl-p-aminobenzoate in, in intractable cancer pain (CI) [Korsten, Ackerman, Grouls, van Zundert, Bon, Bal, Crommelin, Ribot, Hoefsloot & Sloff], 950
- clonidine in, and fentanyl (CI) [Rostaing, Bonnet, Levron, Voldinh, Pluskwa & Saada], 420
- in congenital lumbosacral spinal anomalies (CR) [Cooper & Smith], 370
- epidural abscess associated with (CO) [Strong], 709
- epidural abscess associated with (CO) [Waldman], 708
- fetal heart rate after (CI) [Loftus, Holbrook & Cohen], 406
- and general anesthesia *versus* general anesthesia for abdominal aortic surgery (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611
- lumbar anatomy and (CI) [Hogan], 767
- nalbuphine or morphine, in postthoracotomy patients (CI) [Etches, Sandler & Lawson], 9
- observation of spinal canal and cisternae with flexible fiberoptic during (LR) [Shimoji, Fujioka, Onodera, Hokari, Fukuda, Fujiwara & Hatori], 341
- postoperative, morphine in, is safe on surgical wards (CI) [Ready, Loper, Nessly & Wild], 452
- proper needle size for performing (CO) [Goffen], 166
- proper needle size for performing (CO) [Jackson & Rauck], 166
- spinal or epidural catheters in, difficult to remove, approach to (CO) [Gravenstein, Blackshear & Wissler], 544
- versus* intravenous, fentanyl in, for pain relief (CI) [Salomäki, Laitinen & Nuutinen], 790

**epidural blood patch**

- in post-dural puncture complication (CO) [Kelly, Boyd & Plagenhoff], 548
- to resolve postmyelogram headache (CR) [Parlow & Einarsen], 145

**fiberoptic intubation**

- aids for, in children (CO) [Wilton], 549

**hypotension, induced**

- controlled
- continuous noninvasive finger blood pressure during (CI) [Epstein, Bartkowski & Huffnagle], 796

**inhalational**

- desflurane in, for outpatient anesthesia (CI) [Hemelrijk, Smith & White], 197
- of propofol for strabismus surgery, and emesis (CI) [Watcha, Simeon, White & Stevens], 204

**internal jugular vein cannulation**

- percutaneous puncture of vein using continuously transduced pressure (CO) [Mangar & Connell], 383

**internal jugular vein catheterization**

- risk of, does systematic anticoagulation increase? (CO) [Peterson], 1124

**intravenous**

- for alfentanil infusion for postoperative pain (CI) [Camu & Debucquoy], 171
- desflurane in, for outpatient anesthesia (CI) [Hemelrijk, Smith & White], 197

**low-flow**

- for xenon anesthesia (LR) [Luttrupp, Rydgren, Thomasson & Werner], 896

**motor point block**

- phenol for, in children (CR) [Morrison, Matthews, Washington, Fennessey & Harrison], 359

**one-lung ventilation**

- Univent® tube for bronchial cuff inflation in (CO) [Hannallah], 165

**pulmonary artery catheterization**

- catheter insertion for, potential complication of (CO) [Cohen & Whalen], 714
- catheter insertion for, potential complication of (CO) [Cutarelli], 714

**regional**

- brachial plexus block
- unintentional arterial catheterization and bupivacaine toxicity associated with (CR) [Tuominen, Pere & Rosenberg], 356

**spinal**

- continuous
- distribution of catheter-injected local anesthetic in (LI) [Rigler & Drasner], 684
- administration of opioids, histopathologic changes following (LI) [Rawal, Nuutinen, Raj, Lovering, Gobuty, Hagardine, Lehmkuhl, Herva & Abouleish], 1025
- alter splanchnic organ responsiveness (LI) [Jordan & Miller], 654
- failed, with Sprotte needle (CO) [Crone & Vogel], 717
- in infants: could L5-S1 approach be safer? (CO) [Busoni & Meseri], 168
- in infants: could L5-S1 approach be safer? (CO) [Orr & Haberkern], 169
- and ketamine and midazolam neurotoxicity in rabbit (LI) [Malinovsky, Cozian, Lepage, Mussini, Pinaud & Souron], 91
- observation of spinal canal and cisternae with flexible fiberoptic during (LR) [Shimoji, Fujioka, Onodera, Hokari, Fukuda, Fujiwara & Hatori], 341
- and reactivation of oral herpes simplex (CO) [Pennant & Wallace], 167
- sudden asystole after, treated with "pacing thump" (CO) [Gibbons & Ditto], 705
- "failed," repeat injection after, potentially unsafe practice (CO) [Drasner & Rigler], 713

**tracheal intubation**

- and postintubation croup in children (CO) [Litman & Keon], 1122

**transmucosal**

- fentanyl
- absorption and bioavailability of (CI) [Streisand, Varvel, Stanski, LeMaire, Ashburn, Hague, Tarver & Stanley], 223

**Anesthetics**

**gases**

- nitrous oxide
- in comparative study of effects on contractility and oxygen supply and demand in isolated hearts (LI) [Stowe, Monroe, Marjic, Bosnjak & Kampine], 1062
- contribution of, to isoflurane MAC in children (CI) [Murray, Mehta & Forbes], 186
- dose-response for atropine in children anesthetized with (CI) [Palmisano, Setlock, Brown, Siker & Tripuraneni], 238
- for outpatient laparoscopy (CI) [Hemelrijk, Smith & White], 197
- propofol with and without, effect of, on postoperative vomiting after strabismus surgery (CI) [Watcha, Simeon, White & Stevens], 204

- in study of system model for closed-circuit inhalation anesthesia (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345
- xenon  
minimal-flow system for anesthesia with (LR) [Luttrupp, Rydgren, Thomasson & Werner], 896
- intravenous**  
alfentanil  
human liver microsomal, influence of dexmedetomidine and clonidine on (LR) [Kharasch, Hill & Eddy], 520
- butorphanol  
and/or midazolam, effects of (CO) [Dershwitz, Rosow, DiBiase & Zaslavsky], 707  
and/or midazolam, effects of (CO) [Kestin], 706  
and/or midazolam, effects of (CO) [Sosis], 706
- diazepam  
forearm compartment syndrome after administration of (CR) [Bortolussi, Hunter & Handal], 159  
and GABAergic transmission in rat brain (LI) [Peduto, Concas, Santoro, Biggio & Gessa], 1000
- fentanyl  
bioavailability (CI) [Streisand, Varvel, Stanski, LeMaire, Ashburn, Hague, Tarver & Stanley], 223
- ketamine  
neurotoxicity in rabbit (LI) [Malinovsky, Cozian, Lepage, Mussini, Pinaud & Souron], 91
- methohexital  
in study of contractile responses of guinea pig trachea to oxybarbiturates and thiobarbiturates (LI) [Curry, Lenox, Spannhake & Hirshman], 679
- midazolam  
and/or butorphanol, effects of (CO) [Dershwitz, Rosow, DiBiase & Zaslavsky], 707  
and/or butorphanol, effects of (CO) [Kestin], 706  
and/or butorphanol, effects of (CO) [Sosis], 706
- pentobarbital  
pharmacodynamics of, influence of cryogenic brain injury on (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634  
in study of contractile responses of guinea pig trachea to oxybarbiturates and thiobarbiturates (LI) [Curry, Lenox, Spannhake & Hirshman], 679
- propofol  
bolus induction plus continuous infusion in Duchenne muscular dystrophy (CO) [Ginsburg, Porterfield & Lippman], 376  
contamination of, from opening glass ampules (LR) [Zacher, Zornow & Evans], 893  
effect of, on postoperative vomiting after strabismus surgery (CI) [Watcha, Simeon, White & Stevens], 204  
enhancement by, of epinephrine-induced arrhythmias (LI) [Kamibayashi, Hayashi, Sumikawa, Yamatodani, Kawabata & Yoshiya], 1035  
and GABAergic transmission in rat brain (LI) [Peduto, Concas, Santoro, Biggio & Gessa], 1000  
and halothane, norepinephrine kinetics with (LI) [Deegan, BingHe, Wood & Wood], 481  
induction dose of, in infants and children (CO) [Borgeat, Wilder-Smith & Tassonyi], 550  
induction dose of, in infants and children (CO) [Westrin], 550  
modification of evoked hippocampal dentate inhibition (LI) [Albertson, Tseng & Joy], 82  
for outpatient laparoscopy (CI) [Hemelrijk, Smith & White], 197  
peripheral vascular effects of (CI) [Rouby, Andreev, Léger, Arthaud, Landault, Vicaut, Maistre, Eurin, Gandjbakhch & Viars], 32  
time course of ventilatory depression following induction with (CI) [Blouin, Conard & Gross], 940
- thiamylal**  
in study of contractile responses of guinea pig trachea to oxybarbiturates and thiobarbiturates (LI) [Curry, Lenox, Spannhake & Hirshman], 679
- thiopental**  
in comparative study of anesthetic-epinephrine arrhythmia protocols (LI) [Woehick, Rusy & Altee], 884  
peripheral vascular effects of (CI) [Rouby, Andreev, Léger, Arthaud, Landault, Vicaut, Maistre, Eurin, Gandjbakhch & Viars], 32  
time course of ventilatory depression following induction with (CI) [Blouin, Conard & Gross], 940
- local**  
benzocaine  
and methemoglobinemia (CO) [Mathews], 715
- bupivacaine  
and epinephrine, effects of, on sciatic nerve blood flow (LI) [Partridge], 243  
fetal heart rate after (CI) [Loftus, Holbrook & Cohen], 406  
optimum concentration of, for caudal-general anesthesia in children (CI) [Gunter, Dunn, Bennie, Pentecost, Bower & Ternberg], 57  
toxicity to, associated with continuous interscalene brachial plexus block (CR) [Tuominen, Pere & Rosenberg], 356
- cocaine  
cardiovascular toxicity to, treatment of (CO) [Nahas], 544
- lidocaine  
catheter-injected, distribution of, in model of subarachnoid space (LI) [Rigler & Drasner], 684  
cerebrospinal fluid distribution of (LI) [Marathe, Shen, Artru & Bowdle], 804  
and drug access to site of action (EV) [Wood], 721  
and epinephrine, effects of, on sciatic nerve blood flow (LI) [Partridge], 243  
fetal heart rate after (CI) [Loftus, Holbrook & Cohen], 406  
and ketamine and midazolam neurotoxicity in rabbit (LI) [Malinovsky, Cozian, Lepage, Mussini, Pinaud & Souron], 91  
and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827
- n-butyl-p-aminobenzoate  
long-lasting epidural sensory blockade by, in intractable cancer pain (CI) [Korsten, Ackerman, Grouls, van Zundert, Bon, Bal, Crommelin, Ribot, Hoefsloot & Sloff], 950
- ropivacaine  
systemic toxicity of, during ovine pregnancy (LI) [Santos, Arthur, Pedersen, Morishima, Finster & Covino], 137
- tetracaine  
and epinephrine, effects of, on sciatic nerve blood flow (LI) [Partridge], 243  
toxicity to  
and peripheral nerve blood flow (LI) [Partridge], 243  
of ropivacaine during ovine pregnancy (LI) [Santos, Arthur, Pedersen, Morishima, Finster & Covino], 137  
in management of difficult adult airway (MI) [Benumof], 1087  
potassium channel blockers potentiate impulse inhibition by (LI) [Drachman & Strichartz], 1051
- oral**  
ketamine  
palatable gelatin vehicle for (CO) [Rosen & Rosen], 914  
midazolam  
palatable gelatin vehicle for (CO) [Rosen & Rosen], 914  
potency of, *See under* Potency, anesthetic

**volatile**

chloroform

first anesthetic mixture (CO) [Defalque & Wright], 1118

desflurane

in comparative study in patients undergoing coronary artery surgery (CI) [Thomson, Bowering, Hudson, Fraix & Rosenbloom], 776

MAC of, and hemodynamic responses in neonates, infants, and children (CI) [Taylor & Lerman], 975

for outpatient laparoscopy (CI) [Hemelrijck, Smith & White], 197

enflurane

and abnormal cardiac electrophysiology (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847

and automaticity in latent pacemaker fibers (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98

in comparative study of effects on contractility and oxygen supply and demand in isolated hearts (LI) [Stowe, Monroe, Marjic, Bosnjak & Kampine], 1062

and respiratory reflexes from nose (CI) [Nishino, Tanaka, Ishikawa & Hiraga], 441

in study of system model for closed-circuit inhalation anesthesia (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

ether

first anesthetic mixture (CO) [Defalque & Wright], 1118

halothane

and abnormal cardiac electrophysiology (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847

and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298

and automaticity in latent pacemaker fibers (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98

in comparative study of anesthetic-epinephrine arrhythmia protocols (LI) [Woehick, Rusy & Altee], 884

in comparative study of effects on contractility and oxygen supply and demand in isolated hearts (LI) [Stowe, Monroe, Marjic, Bosnjak & Kampine], 1062

coronary vasodilation by (LI) [Kenny, Proctor, Schmeling, Kampine & Warltier], 640

depresses D600 binding to bovine heart sarcolemma (LI) [Hoehner, Quigg & Blanck], 1019

in depression of baroreflexes in growing piglets (LI) [Palmisano, Clifford, Hoffmann, Seagard, Coon & Kampine], 512

dihydropyridine receptor modification of, and malignant hyperthermia (CI) [Adnet, Krivosic-Horber, Adamantidis, Reyford, Cordonnier & Haudecoeur], 415

direct vasodilation by, alters coronary flow reserve in isolated rat heart (LI) [Larach & Schuler], 268

dose-response for atropine in children anesthetized with (CI) [Palmisano, Setlock, Brown, Siker & Tripuraneni], 298

effects of, on patients with steal-prone coronary anatomy (CI) [Pulley, Kirvassilis, Kelermenos, Kater, Barzilai, Genton, Efsthathiou & Lappas], 756

effects of, on ventricular tachycardia in intact dogs (LI) [Gallagher & McClernan], 866

effects on  $Ca^{2+}$  in myocytes (LI) [Wilde, Knight, Sheth & Williams], 1075

electrophysiologic effects of, on canine Purkinje fibers (LI) [Gallagher], 106

and hepatic artery ligation in beagle (LI) [Fujita, Kimura, Hamada & Takaori], 313

inhibits residual fast sodium channels in human atrial muscle (CO) [Chou, Wei & Lin], 716

no worsening of ischemia with, during acute coronary artery occlusion (LI) [Moore, Kien, Reitan, White & Safwat], 854

ouabain, and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 305

propofol with and without, effect of, on postoperative vomiting after strabismus surgery (CI) [Watcha, Simeon, White & Stevens], 204

and propofol, norepinephrine kinetics with (LI) [Deegan, BingHe, Wood & Wood], 481

and respiratory reflexes from nose (CI) [Nishino, Tanaka, Ishikawa & Hiraga], 441

in study of dexmedetomidine prevention of epinephrine induction of arrhythmias (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113

and thermosensitive preoptic region neurons (LI) [Poterack, Kampine & Schmeling], 625

isoflurane

and abnormal cardiac electrophysiology (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847

and automaticity in latent pacemaker fibers (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98

and circadian temperature cycles in humans (CI) [Sessler, Lee & McGuire], 985

in comparative study in patients undergoing coronary artery surgery (CI) [Thomson, Bowering, Hudson, Fraix & Rosenbloom], 776

in comparative study of effects on contractility and oxygen supply and demand in isolated hearts (LI) [Stowe, Monroe, Marjic, Bosnjak & Kampine], 1062

coronary vasodilation by (LI) [Kenny, Proctor, Schmeling, Kampine & Warltier], 640

and dexmedetomidine in spinal cord (LI) [Savola, Woodley, Maze & Kendig], 489

direct vasodilation by, alters coronary flow reserve in isolated rat heart (LI) [Larach & Schuler], 268

effects of, on patients with steal-prone coronary anatomy (CI) [Pulley, Kirvassilis, Kelermenos, Kater, Barzilai, Genton, Efsthathiou & Lappas], 756

and hepatic artery ligation in beagle (LI) [Fujita, Kimura, Hamada & Takaori], 313

hypothermia, and light reflex (CI) [Larson, Sessler, McGuire & Hynson], 62

MAC in children, contribution of nitrous oxide to (CI) [Murray, Mehta & Forbes], 186

no worsening of ischemia with, during acute coronary artery occlusion (LI) [Moore, Kien, Reitan, White & Safwat], 854

and respiratory reflexes from nose (CI) [Nishino, Tanaka, Ishikawa & Hiraga], 441

in study of coronary artery dilation and coronary steal (CO) [Buffington], 376

in study of coronary artery dilation and coronary steal (CO) [Warltier], 377

in study of physiologic responses to perianesthetic hypothermia (CI) [Sessler, Rubinstein & Moayeri], 594

in study of system model for closed-circuit inhalation anesthesia (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

sevoflurane

direct vasodilation by, alters coronary flow reserve in isolated rat heart (LI) [Larach & Schuler], 268

and hepatic artery ligation in beagle (LI) [Fujita, Kimura, Hamada & Takaori], 313

malignant hyperthermia during, in child with central core disease (CR) [Otsuka, Komura, Mayumi, Yamamura, Kemotsu & Mukaida], 699

- in study of system model for closed-circuit inhalation anesthesia (CI) [Lerou, Dirksen, Beneken Kolmer, Booij & Borm], 230
- in fatal anaphylaxis during anesthesia: radioimmunoassays to determine (CR) [Fisher, Baldo & Silbert], 1112
- Angiotensin converting enzyme inhibitors, *See under* Enzymes**
- Angiotensin II, *See under* Pharmacology**
- Animals**
- dog**
- anesthetics and abnormal cardiac electrophysiology in infarcted hearts of (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847
- halothane and atrial pacemaker automaticity in (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298
- halothane, ouabain, and atrial pacemaker automaticity in (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 305
- in study of effect of volatile anesthetics on Purkinje fiber automaticity (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98
- swine**
- infant**
- depression of baroreflex control of heart rate by halothane in (LI) [Palmisano, Clifford, Hoffmann, Seagard, Coon & Kampine], 512
- Antagonists**
- benzodiazepine**
- flumazenil
- antagonism of midazolam-induced ventilatory depression (CI) [Gross, Weller & Conard], 179
- dizocilpine**
- and ischemic brain damage (LI) [Nellgård, Gustafson & Wieloch], 279
- glutamate**
- and ischemic brain damage (LI) [Nellgård, Gustafson & Wieloch], 279
- neuromuscular relaxants**
- anticholinesterases
- glycopyrrolate and (CO) [Grum], 1126
- glycopyrrolate and (CO) [Wingard], 1125
- edrophonium
- in reversal of neuromuscular blockade (CI) [Kopman], 588
- Antiarrhythmics, *See under* Sympathetic nervous system, sympatholytic agents**
- Anticholinergics, *See under* Parasympathetic nervous system**
- Anticholinesterases, *See under* Antagonists, neuromuscular relaxants**
- Anticoagulants, *See under* Blood**
- Anticoagulation, *See under* Blood**
- Antiemetics**
- droperidol**
- propofol with and without, effect of, on postoperative vomiting after strabismus surgery (CI) [Watcha, Simeon, White & Stevens], 204
- Antipsychotic medication, *See under* Pharmacology**
- Aorta, *See under* Arteries**
- Aortic dissection, *See under* Surgery, cardiac**
- Aortic surgery, *See under* Surgery**
- Apnea, *See under* Complications; Ventilation**
- Aprotinin, *See under* Blood, coagulation**
- Arachidonic acid, *See under* Metabolism**
- Arachnoid mater, *See under* Spinal cord**
- Arginine-rich basic polypeptides, *See under* Polypeptides**
- Arrhythmias, *See under* Heart**
- Arterial pressure**
- systolic, *See under* Arteries
- Arterial puncture, *See under* Complications**
- Arteries**
- aorta**
- abdominal, external compression of, for reversal of Tetralogy of Fallot cyanotic crisis (CR) [Baele, Rennotte & Veyckemans], 146
- coronary**
- dilation
- isoflurane studied in steal-prone arteries (CO) [Buffington], 376
- isoflurane studied in steal-prone arteries (CO) [Wartier], 377
- steal
- isoflurane studied in steal-prone arteries (CO) [Buffington], 376
- isoflurane studied in steal-prone arteries (CO) [Wartier], 377
- patients prone to, effects of isoflurane and halothane in (CI) [Pulley, Kirvassilis, Kelermenos, Kater, Barzilai, Genton, Efsthathiou & Lappas], 756
- systolic arterial pressure**
- in response to desflurane, in infants and children (CI) [Taylor & Lerman], 975
- Artificial heart, *See under* Heart**
- Aspiration, *See under* Complications**
- Asthma, *See under* Complications**
- Atipamezole, *See under* Sympathetic nervous system,  $\alpha_2$  antagonists; Sympathetic nervous system,  $\alpha_2$ -adrenergic agonists**
- Atracurium, *See under* Neuromuscular relaxants**
- Atrial rate, *See under* Heart**
- Atrial septal defect, *See under* Heart**
- Atrioventricular condition time, *See under* Heart**
- Atrium, *See under* Heart**
- Atropine, *See under* Parasympathetic nervous system**
- Automaticity, *See under* Heart**
- Autonomic blockade, *See under* Sympathetic nervous system**
- Autonomy, *See under* Complications**
- AV node, *See under* Heart**
- Awareness, *See under* Anesthesia, depth**

## B

- Bacterial contamination, *See under* Complications**
- Balanced anesthesia, *See under* Anesthetic techniques**
- Baroreceptor, *See under* Reflexes**
- BAY K8644, *See under* Ions, calcium, calcium agonist**
- Benzocaine, *See under* Anesthetics, local**
- Benzodiazepine antagonists, *See under* Antagonists**
- Benzodiazepines, *See under* Hypnotics; Receptors**
- Biology**
- circadian rhythm**
- temperature cycles in humans, isoflurane anesthesia and (CI) [Sessler, Lee & McGuire], 985
- diurnal variation**
- temperature cycles in humans, isoflurane anesthesia and (CI) [Sessler, Lee & McGuire], 985
- Blood**
- abdominal organ**
- spinal blockade alters responsiveness of (LI) [Jordan & Miller], 654
- anemia**
- effects on pulse oximetry and continuous mixed venous hemoglobin saturation monitoring (LI) [Lee, Tremper & Barker], 118
- anticoagulants**
- heparin
- and protamine complications, prevention of (LI) [Yang, Port, Kim, Teng, Till & Wakefield], 288

**anticoagulation**

systematic, does it increase risk of internal jugular vein cannulation? (CO) [Peterson], 1124

**blood gases**

and hypoxia among experts (CO) [Roy], 915

**coagulation**

**aprotinin**

and blood conservation techniques and platelet function in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

mechanism of action of, and postoperative bleeding (CO) [Allison & Whitten], 377

mechanism of action of, and postoperative bleeding (CO) [Dietrich, Richter, Schramm & Spannagl], 378

mechanism of action of, and postoperative bleeding (CO) [Merle, Lançon, Dutrillaux, Obadia & Caillard], 379

**complement activation**

and prevention of heparin/protamine complications (LI) [Yang, Port, Kim, Teng, Till & Wakefield], 288

**disorders**

preoperative detection of, value of activated partial thromboplastin time for (CO) [Janvier, Winnock & Freyburger], 920

**heparin**

inhaled nitric oxide prevents vasoconstriction by (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990

**platelet activation**

during cardiopulmonary bypass (CI) [Rinder, Bohnert, Rinder, Mitchell, Ault & Hillman], 388

**platelet aggregation**

during cardiopulmonary bypass (CI) [Rinder, Bohnert, Rinder, Mitchell, Ault & Hillman], 388

**platelet glycoproteins**

during cardiopulmonary bypass (CI) [Rinder, Bohnert, Rinder, Mitchell, Ault & Hillman], 388

**protamine**

effects of, on vascular smooth muscle of rabbit mesenteric artery (LI) [Akata, Yoshitake, Nakashima & Itoh], 833

and heparin complications, prevention of (LI) [Yang, Port, Kim, Teng, Till & Wakefield], 288

inhaled nitric oxide prevents vasoconstriction by (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990

right-to-left intracardiac shunting induced by (CR) [Cheung, Weiss & Savino], 904

during cardiopulmonary bypass (CI) [Rinder, Mathew, Rinder, Bonan, Ault & Smith], 563

**factor XII deficiency**

cardiopulmonary bypass in patient with (CR) [Salmenperä, Rasi & Mattila], 539

**flow**

**cerebral**

in response to carbon dioxide during hypothermic bypass (LI) [Hindman, Funatsu, Harrington, Cutkomp, Dexter, Todd & Tinker], 662

**hemofiltration**

and blood conservation techniques in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

**hemoglobin**

**saturation**

monitoring of, and pulse oximetry, effects of anemia on (LI) [Lee, Tremper & Barker], 118

**loss**

and blood conservation techniques in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

**neutropenia**

and anesthetic considerations in patients receiving colony-stimulating factors (CR) [Tobias & Furman], 536

**plasma**

**glucose**

effects of insulin infusion on, in hyperglycemic diabetic rats (LI) [Hofer & Lanier], 673

**platelet activation**

during cardiopulmonary bypass (CI) [Rinder, Mathew, Rinder, Bonan, Ault & Smith], 563

**platelet aggregation**

and blood conservation techniques in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

**platelet function**

and blood conservation techniques in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

**platelet glycoproteins**

during cardiopulmonary bypass (CI) [Rinder, Mathew, Rinder, Bonan, Ault & Smith], 563

**Blood flow, See under Blood; specific organs**

**adrenal medulla**

spinal blockade alters responsiveness of (LI) [Jordan & Miller], 654

**cerebral, See under Brain**

**cutaneous**

hyperventilation reduces (CI) [Barker, Hyatt, Clarke & Tremper], 619

**hepatic, See under Liver**

**peripheral nerve, See under Circulation**

**Blood gases, See under Blood**

**Blood pressure**

**hypotension**

hemorrhagic, spinal blockade alters splanchnic organ responsiveness to (LI) [Jordan & Miller], 654

**measurement**

**right and left difference**

in vascular surgery patients (CI) [Frank, Norris, Christopherson & Beattie], 457

**tonometry**

during anesthesia (LR) [Kemotsu, Ueda, Otsuka, Yamamura, Winter & Eckerle], 333

**Blood pressure, See under Circulation; Measurement techniques; Monitoring**

**Blood pressure monitors, See under Equipment; Monitoring**

**Blood vessels**

**vasoconstriction**

in response to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**vasodilation**

effects of halothane and isoflurane on (LI) [Kenny, Proctor, Schmeling, Kampine & Warltier], 640

**Book reviews**

Books received but not reviewed, November 1990 to June 1991, 719

Datta, S., *Anesthetic and Obstetric Management of High-risk Pregnancy* [Lindeman], 924

DeBruijn, N. P., and Clements, F. M. (eds.), *Intraoperative Use of Echocardiography* [Casella], 925

Miller, R. D. (ed.), *Anesthesia*, Third edition [Shanewise & Ramsay], 924

Motoyama, E. K., and Davis, P. J. (eds.), *Smith's Anesthesia for Infants and Children*, 5<sup>th</sup> edition [Yaster], 1129

Overton, C. E., *Studies of Narcosis* [Kepner], 552

Parbrook, G. D., Davis, P. D., and Parbrook, E. O., *Basic Physics and Measurement in Anesthesia*, 3<sup>rd</sup> edition [Mehri], 1128



Riegelman, R. K., and Hirsch, R. P., *Studying a Study and Testing a Test: How to Read the Medical Literature*, 2<sup>nd</sup> edition [Gross], 1128

Warfield, C. A., *Manual of Pain Management* [Curry], 926

**Brachial plexus block**, *See under Anesthetic techniques*, regional

## Brain

### blood flow

epinephrine dosage effects on, in model of cardiopulmonary resuscitation (LI) [Berkowitz, Gervais, Schleien, Koehler, Dean & Traystman], 1041

metabolism, and temperature, relationship among, during hypothermia (LI) [Michenfelder & Milde], 130

in response to carbon dioxide during hypothermic bypass (LI) [Hindman, Funatsu, Harrington, Cutkomp, Dexter, Todd & Tinker], 662

following resuscitation from hemorrhagic shock with hypertonic saline (LI) [Prough, Whitley, Taylor, Deal & DeWitt], 319

### carbon dioxide response

during hypothermic cardiopulmonary bypass in rabbits (LI) [Hindman, Funatsu, Harrington, Cutkomp, Dexter, Todd & Tinker], 662

### cerebrospinal fluid

lidocaine distribution in (LI) [Marathe, Shen, Artru & Bowdle], 804

### electroencephalography

in assessment of effect of halothane on preoptic region of anterior hypothalamus (LI) [Poterack, Kampine & Schmeling], 625

during carotid endarterectomy (CI) [Lam, Manninen, Ferguson & Nantau], 15

in measurement of cerebral metabolism during hypothermia (LI) [Michenfelder & Milde], 130

### evoked potentials

#### monitoring of

during carotid endarterectomy (CI) [Lam, Manninen, Ferguson & Nantau], 15

in propofol modification of hippocampal inhibition (LI) [Albertson, Tseng & Joy], 82

### GABA-mediated inhibition

in propofol modification of hippocampal inhibition (LI) [Albertson, Tseng & Joy], 82

### hippocampus

inhibition of, propofol and (LI) [Albertson, Tseng & Joy], 82

and lack of protection of brain by dizocilpine (LI) [Nellgård, Gustafson & Wieloch], 279

### hypothalamus

anterior, effect of halothane on thermosensitive neurons on (LI) [Poterack, Kampine & Schmeling], 625

### injury

cryogenic, influence of, on pharmacodynamics of pentobarbital (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634

### intracranial pressure

paraben preservatives do not increase, in cats (LI) [Pompy, Karlin, Capuano, Cottrell & Hartung], 669

following resuscitation from hemorrhagic shock with hypertonic saline (LI) [Prough, Whitley, Taylor, Deal & DeWitt], 319

### ischemia

#### cell death

and lack of protection of brain by dizocilpine (LI) [Nellgård, Gustafson & Wieloch], 279

#### protection

and lack of protection of brain by dizocilpine (LI) [Nellgård, Gustafson & Wieloch], 279

dexmedetomidine improves neurologic outcome from (LI) [Hoffman, Kochs, Werner, Thomas & Albrecht], 328

effects of insulin infusion on, in hyperglycemic diabetic rats (LI) [Hofer & Lanier], 673

## metabolism

blood flow, and temperature, relationship among, during hypothermia (LI) [Michenfelder & Milde], 130

## neurons

### dopaminergic

electrical activity of, propofol and (LI) [Peduto, Concas, Santoro, Biggio & Gessa], 1000

### nondopaminergic

electrical activity of, propofol and (LI) [Peduto, Concas, Santoro, Biggio & Gessa], 1000

## neurotransmitters

### serotonin

in study of effects of brain injury on anesthetic requirements (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634

## oxygen consumption

epinephrine dosage effects on, in model of cardiopulmonary resuscitation (LI) [Berkowitz, Gervais, Schleien, Koehler, Dean & Traystman], 1041

## perforant pathway

in propofol modification of hippocampal inhibition (LI) [Albertson, Tseng & Joy], 82

## subdural mass

cerebral blood flow following resuscitation from hemorrhagic shock with hypertonic saline in (LI) [Prough, Whitley, Taylor, Deal & DeWitt], 319

## temperature

blood flow, and metabolism, relationship among, during hypothermia (LI) [Michenfelder & Milde], 130

**Breathing**, *See under Ventilation*

**Breathing circuits**, *See under Equipment*

**Breathing pattern**, *See under Ventilation*

**Bronchial cuff**, *See under Equipment*

**Bronchial rings**, *See under Airway*

**Bronchial segments**, *See under Airway*

**Bronchoscope, fiberoptic**, *See under Equipment*

**Bronchoscopy**, *See under Anesthetic techniques*

**Bronchospasm**, *See under Complications*

**Bupivacaine**, *See under Anesthetics, local*

**Burns**, *See under Complications*

**Butorphanol**, *See under Analgesics, opioid; Anesthetics, intravenous*

## C

**Ca<sup>2+</sup> homeostasis**, *See under Heart; Ions, calcium*

**Caffeine halothane contracture test**, *See under Measurement techniques*

**Calcitriol**, *See under Vitamins*

**Calcium**, *See under Ions*

**Calcium agonists**, *See under Ions, calcium*

**Calcium antagonists**, *See under Pharmacology*

**Calcium blockers**, *See under Ions*

**Calcium channel-blocking drugs**, *See under Ions, calcium; Pharmacology*

**Cancer pain**, *See under Pain*

**Captopril**, *See under Enzymes, inhibition*

## Carbon dioxide

### end-tidal carbon dioxide tension

pulse oximetry and, in congenital heart disease (CI) [Fletcher], 210

### hypercapnia

effects of, on electroencephalogram and somatosensory evoked potentials (CI) [Kalkman, Boezeman, Ribberink, Oosting, Deen & Bovill], 68

- hypercarbia**  
and ventilation after propofol and thiopental (CI) [Blouin, Conard & Gross], 940
- hypocapnia**  
effects of, on electroencephalogram and somatosensory evoked potentials (CI) [Kalkman, Boezeman, Ribberink, Oosting, Deen & Bovill], 68  
hyperventilation reduces transcutaneous oxygen tension (CI) [Barker, Hyatt, Clarke & Tremper], 619
- ventilatory response**  
flumazenil reversal of midazolam (CI) [Gross, Weller & Conard], 179  
after propofol and thiopental (CI) [Blouin, Conard & Gross], 940
- Cardiac anesthesia, See under Anesthesia**
- Cardiac arrest, See under Heart**
- Cardiac automaticity, See under Heart**
- Cardiac electrophysiology, See under Heart**
- Cardiac glycosides, See under Heart**
- Cardiac ischemia, See under Heart**
- Cardiac oxygen delivery, See under Heart**
- Cardiac oxygen extraction, See under Heart**
- Cardiac surgery, See under Surgery**
- Cardiopulmonary bypass, See under Surgery, cardiac**
- Cardiopulmonary resuscitation, See under Heart**
- Cardiovascular anesthesia, See under Anesthesia**
- Cardiovascular development, See under Heart**
- Cardiovascular toxicity, See under Toxicity, cardiac**
- Cardioverter-defibrillator, See under Heart**
- Carotid endarterectomy, See under Surgery**
- Catecholamines, See under Sympathetic nervous system**
- Catheters, See under Equipment**
- Cauda equina syndrome, See under Complications**
- Caudal epidural anesthesia, See under Anesthetic techniques**
- Celiac plexus block, See under Anesthetic techniques**
- Cell saver, See under Transfusion**
- Cell separator, See under Equipment**
- Central anticholinergic syndrome, See under Complications**
- Central cord syndrome, See under Complications**
- Cerebral blood flow, See under Brain**
- Cerebral carbon dioxide response, See under Brain**
- Cerebral ischemia, See under Brain**
- Cerebral metabolism, See under Brain**
- Cerebral temperature, See under Brain**
- Cerebrospinal fluid, See under Brain**
- Cesium, See under Pharmacology**
- Chest rigidity, See under Complications**
- Chloroform, See under Anesthetics, volatile**
- Chromatography**  
high-pressure liquid, *See under Measurement techniques*
- Cirazoline, See under Sympathetic nervous system,  $\alpha_1$  adrenergic agonists**
- Circadian rhythm, See under Biology**
- Circulation**  
**blood pressure**  
in response to atropine, oral clonidine influences (CI) [Nishikawa & Dohi], 217  
**extracorporeal, See under Surgery, cardiovascular**  
**heart rate**  
in response to atropine, oral clonidine influences (CI) [Nishikawa & Dohi], 217  
**peripheral nerve blood flow**  
effects of local anesthetics and epinephrine on (LI) [Partridge], 243  
**pulmonary**  
and endogenous nitrovasodilator and new cellular messenger (EV) [Johns], 927  
in protamine-induced right-to-left intracardiac shunting (CR) [Cheung, Weiss & Savino], 904  
and pulmonary vasoregulation posthypoperfusion (LI) [Fehr, Nyhan, Chen & Murray], 257  
in response to desflurane, in infants and children (CI) [Taylor & Lerman], 975  
and thromboxane-induced pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475
- Clonidine, See under Pharmacology; Sympathetic nervous system; Sympathetic nervous system,  $\alpha_2$  agonists; Sympathetic nervous system,  $\alpha_2$ -adrenergic agonist; Sympathetic nervous system,  $\alpha_2$ -adrenergic agonists**
- Clonus, See under Reflexes**
- Closed-circuit anesthesia, See under Anesthetic techniques**
- Coagulation, See under Blood**
- Cocaine, See under Anesthetics, local**
- Colony-stimulating factors, See under Immunology**
- Coma, See under Complications**
- Combitube, See under Equipment**
- Compartment syndrome, See under Complications**
- Complement activation, See under Blood, coagulation**
- Complete heart block, See under Heart**
- Compliance, See under Lung(s)**
- Complications**  
abscess  
epidural  
associated with epidural catheterization (CO) [Strong], 709  
associated with epidural catheterization (CO) [Waldman], 708  
**air entrainment**  
during cardiopulmonary bypass surgery (CO) [Brobst-Lane], 1120  
during cardiopulmonary bypass surgery (CO) [Quinn], 1120  
**airway**  
in Larsen's syndrome (CR) [Stevenson, Hall & Palmieri], 142  
**airway obstruction**  
another cause of (CO) [Hatanaka & Yamashita], 1117  
after three sufentanil-pancuronium induction sequences (CI) [Horrow, Abrams, Van Riper, Lambson & Storella], 969  
**anemia**  
in pediatric day-surgery patients (CI) [Hackmann, Steward & Sheps], 27  
**apnea**  
in former premature infants (CI) [Kurth & LeBard], 22  
postoperative, in full-term infant (CO) [Karayan, LaCoste & Fuscuardi], 375  
**arterial injection**  
and bupivacaine toxicity associated with continuous interscalene brachial plexus block (CR) [Tuominen, Pere & Rosenberg], 356  
**arterial puncture**  
of internal jugular vein using continuously transduced pressure (CO) [Mangar & Connell], 383  
**aspiration**  
tracheal  
of surgically produced foreign bodies (CO) [Hitt & Doblar], 915  
infrequently leading to malpractice suits (CI) [Cheney, Posner & Caplan], 932  
in management of difficult adult airway (MI) [Benumof], 1087  
**asthma**  
guinea pigs, in response to oxybarbiturates and thiobarbiturates (LI) [Curry, Lenox, Spannhake & Hirshman], 679  
**autonomy**  
injury prior to neurectomy alters pattern of, in rats (LI) [Katz, Vaccarino, Coderrec & Melzack], 876

**bacterial contamination**

of drug from opening glass ampules (LR) [Zacher, Zornow & Evans], 893

**bronchospasm**

infrequently leading to malpractice suits (CI) [Cheney, Posner & Caplan], 932

**burns**

associated with pulse oximetry during magnetic resonance imaging (CO) [Bashein & Syrov], 382

**cauda equina syndrome**

repeat injection after "failed spinal": potentially unsafe practice (CO) [Drasner & Rigler], 713

**central anticholinergic syndrome**

glycopyrrolate and (CO) [Grum], 1126  
glycopyrrolate and (CO) [Wingard], 1125

**central cord syndrome**

after thoracolumbar surgery in prone position (CR) [Deem, Shapiro & Marshall], 527

**central core disease**

malignant hyperthermia during sevoflurane anesthesia in child with (CR) [Otsuka, Komura, Mayumi, Yamamura, Kemmotsu & Mukaida], 699

**chest rigidity**

after three sufentanil-pancuronium induction sequences (CI) [Horrow, Abrams, Van Riper, Lambson & Storella], 969

**coma**

and bupivacaine toxicity associated with continuous interscalene brachial plexus block (CR) [Tuominen, Pere & Rosenberg], 356

**compartment syndrome**

diagnosis of, epidural opioid analgesia does not obscure, resulting from prolonged lithotomy position (CR) [Montgomery & Ready], 541

**croup**

postintubation, in children (CO) [Litman & Keon], 1122

**cyanosis**

Tetralogy of Fallot  
external compression of abdominal aorta reversing (CR) [Baele, Rennotte & Veyckemans], 146

**diabetes**

little risk of hyperosmolar coma in, during cardiopulmonary bypass (CO) [Alberti], 913  
little risk of hyperosmolar coma in, during cardiopulmonary bypass (CO) [Hirsch & White], 912  
little risk of hyperosmolar coma in, during cardiopulmonary bypass (CO) [Metz], 912

**dystonia**

and spastic torticollis during general anesthesia (CR) [Stemp & Taswell], 365

**embolism**

in protamine-induced right-to-left intracardiac shunting (CR) [Cheung, Weiss & Savino], 904

**failed spinal anesthesia**

with Sprotte needle (CO) [Crone & Vogel], 717

**forearm compartment syndrome**

after diazepam administration (CR) [Bortolussi, Hunter & Handal], 159

**foreign bodies**

surgically produced  
risk of tracheal aspiration of (CO) [Hitt & Doblar], 915

**Guillain-Barré syndrome**

burning pain of, opioid analgesics and (CO) [Ennis], 913  
burning pain of, opioid analgesics and (CO) [Warfield], 914

**headache**

post-dural puncture  
unusual cause of (CR) [Parlow & Einarson], 145

**herpes simplex**

intrathecal morphine as cause for, should be scratched out (CO) [Abouleish], 919

intrathecal morphine as cause for, should be scratched out (CO) [Pennant & Wallace], 920

**herpes simplex labialis**

reactivation of, intrathecal morphine and (CO) [Pennant & Wallace], 167

**high spinal**

in infants undergoing spinal anesthesia: could L5-S1 approach be safer? (CO) [Busoni & Messeri], 168

in infants undergoing spinal anesthesia: could L5-S1 approach be safer? (CO) [Orr & Haberkern], 169

**hypertension**

pulmonary  
and endogenous nitrovasodilator and new cellular messenger (EV) [Johns], 927

in gravid ewes in response to vasopressors, does magnesium sulfate alter? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010

**hypotension**

postoperative, in pain treatment, intravenous clonidine and (CI) [Bernard, Hommeril, Passuti & Pinaud], 577

with protamine administration after cardiopulmonary bypass (LI) [Akata, Yoshitake, Nakashima & Itoh], 833

**hypoxia**

in former premature infants (CI) [Kurth & LeBard], 22

**Larsen's syndrome**

anesthetic considerations for patients with (CR) [Stevenson, Hall & Palmieri], 142

**malignant hyperthermia**

during sevoflurane anesthesia in child with central core disease (CR) [Otsuka, Komura, Mayumi, Yamamura, Kemmotsu & Mukaida], 699

**methemoglobinemia**

benzocaine and (CO) [Mathews], 715

**misidentification**

and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464

**nerve palsy**

and automatic blood pressure measurement (CO) [Schaer], 381

**neurologic**

cauda equina syndrome  
after continuous spinal anesthesia (LI) [Rigler & Drasner], 684

**neurotoxicity**

following intrathecal administration of opioids (LI) [Rawal, Nuutinen, Raj, Lovering, Gobuty, Hagardine, Lehmkuhl, Herva & Abouleish], 1025

**pediatric**

in Larsen's syndrome (CR) [Stevenson, Hall & Palmieri], 142

**pneumothorax**

infrequently leading to malpractice suits (CI) [Cheney, Posner & Caplan], 932

**postoperative morbidity**

high-risk procedures, general *versus* "balanced" general anesthesia for (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

**pulmonary**

postsurgical, following combined epidural and general anesthesia or general anesthesia (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

**pulmonary contusion**

shock-wave-induced, life-threatening hypoxemia after lithotripsy in adult due to (CR) [Malhotra, Rosen & Slepian], 529

**quadraparesis**  
in patient with cervical spondylosis after thoracolumbar surgery in prone position (CR) [Deem, Shapiro & Marshall], 527

**regional wall motion abnormality**  
and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464

**respiratory**  
adverse, infrequently leading to malpractice suits (CI) [Cheney, Posner & Caplan], 932

**respiratory depression**  
and epidural nalbuphine or morphine after thoracotomy (CI) [Etches, Sandler & Lawson], 9  
following intrathecal opioids (CO) [Levy], 712

**sinus bradycardia**  
and clonidine and intravenous atropine (CI) [Nishikawa & Dohi], 217

**spasms**  
pharyngeal  
intractable, following tracheal extubation in undiagnosed tetanus (CR) [Baronia, Singh & Dhiman], 1111

**sudden asystole**  
after spinal anesthesia treated with "pacing thump" (CO) [Gibbons & Ditto], 705

**surgery**  
high-risk procedures, general versus "balanced" general anesthesia for (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

**Tetralogy of Fallot**  
cyanotic crisis  
external compression of abdominal aorta reversing (CR) [Baelc, Rennotte & Veyckemans], 146

**torticollis**  
spastic, during general anesthesia (CR) [Stemp & Taswell], 365

**tracheal extubation**  
transparent dressing is useful for secure fixation of endotracheal tube (CO) [Mikawa, Maekawa, Goto, Yaku & Obara], 1123

**vomiting**  
effect of propofol on, after strabismus surgery (CI) [Watcha, Simeon, White & Stevens], 204  
associated with similar machine controls (CO) [Maurer], 167  
difficult to remove catheters, spinal or epidural, approach to (CO) [Gravenstein, Blackshear & Wissler], 544  
post-dural puncture, new presentation of (CO) [Kelly, Boyd & Plagenhoff], 548  
of pulmonary artery catheter insertion (CO) [Cohen & Whalen], 714  
of pulmonary artery catheter insertion (CO) [Cutarelli], 714

**Computers, See under Equipment**

**Congestive heart failure, See under Heart**

**Continuous infusion, See under Anesthetic techniques**

**Contractility, See under Muscle**

**Controlled ventilation, See under Ventilation**

**Coronary artery, See under Arteries**

**Coronary artery bypass graft, See under Surgery, cardiac**

**Coronary artery disease, See under Heart**

**Coronary artery steal, See under Arteries, coronary**

**Coronary blood flow, See under Heart**

**Coronary circulation, See under Heart**

**Coronary dilation, See under Arteries, coronary**

**Coronary flow, See under Heart**

**Coronary hemodynamics, See under Heart**

**Coronary reserve, See under Heart**

**Coronary resistance vessels, See under Heart**

**Coronary spasm, See under Heart**

**Coronary steal, See under Arteries, coronary**

**Coronary vasodilation, See under Heart**

**Cortisol, See under Hormones, adrenal**

**Cricothyroidotomy, See under Surgery, laryngeal**

**Critical care, See under Intensive care**

**Croup, See under Complications**

**Cyanosis, See under Complications**

**Cyanotic congenital disease, See under Heart**

**Cyclooxygenase, See under Enzymes**

**Cyclosporines, See under Pharmacology**

## D

**D600, See under Pharmacology, calcium channel-blocking drugs**

**Dantrolene, See under Neuromuscular relaxants**

**Data processing, automatic, See under Records, anesthesia**

**Deafferentation, See under Nerve(s)**

**Deep tendon reflexes, See under Reflexes**

**Defibrillation, See under Heart**

**Deglutition, See under reflexes**

**Depth of anesthesia, See under Anesthesia**

**Desflurane, See under Anesthetics volatile; Anesthetics, volatile**

**Dexmedetomidine, See under Pharmacology; Sympathetic nervous system,  $\alpha_2$ -adrenergic agonists; Sympathetic nervous system,  $\alpha$ -adrenergic receptor agonists**

**Diabetes, See under Complications; Metabolism**

**Diaphragm, See under Muscle; Muscle, skeletal**

**Diazepam, See under Anesthetics, intravenous**

**Diurnal variation, See under Biology**

**Dizocilpine, See under Antagonists**

**D-Medetomidine, See under Premedication; Sympathetic nervous system**

**Dog, See under Animals**

**"Do-not-resuscitate" orders, See under Ethics**

**Dopamine, See under Sympathetic nervous system**

**Dopamine receptors, See under Sympathetic nervous system**

**Dopaminergic neurons, See under Brain**

**Doppler, See under Measurement techniques**

**Doppler ultrasonography, See under Measurement techniques**

**Doxazosin, See under Sympathetic nervous system,  $\alpha_1$  adrenergic antagonists**

**Droperidol, See under Antiemetics**

**Drug interactions, See under Interactions (drug)**

**Dura mater, See under Spinal cord**

**Dysrhythmias, See under Heart**

**Dystonia, See under Complications**

## E

**Ear**  
tympanic membrane  
temperature  
measurement of, in evaluation of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**Echocardiography, See under Measurement techniques; Monitoring**

**Edrophonium, See under Antagonists, neuromuscular relaxants**

**Electrical field stimulation, See under Electrical systems**

**Electrical systems**  
electrical field stimulation  
in study of bronchodilation and airway epithelium (LI) [Sayiner, Lorenz, Warner & Rehder], 75

**Electrocardiography, See under Monitoring**

**Electrocautery, See under Equipment**

**Electroencephalography, See under Brain; Monitoring**

**Electromyography, See under Measurement techniques**

**Electrophysiology, See under Heart**

**Embolism, See under Complications****air**

during cardiopulmonary bypass surgery (CO) [Brobst-Lane], 1120

during cardiopulmonary bypass surgery (CO) [Quinn], 1120  
in intraoperative ventilator-induced right-to-left intracardiac shunt (CR) [Jaffe, Pinto, Schnittger & Brock-Utne], 153

**Endothelium-derived relaxing factor, See under Muscle, smooth; Pharmacology****Endotracheal tube, See under Equipment****End-tidal carbon dioxide tension, See under Carbon dioxide****End-tidal concentration, See under Monitoring****Enflurane, See under Anesthetics, volatile****Enzyme inhibitors, See under Enzymes****Enzymes****angiotensin converting enzyme inhibitors****captopril**

and pulmonary vasoregulation posthypoperfusion (LI) [Fehr, Nyhan, Chen & Murray], 257

**cyclooxygenase**

pulmonary vasoregulation by, posthypoperfusion (LI) [Fehr, Nyhan, Chen & Murray], 257

**inhibition****converting-enzyme inhibition**

and pulmonary vasoregulation posthypoperfusion (LI) [Fehr, Nyhan, Chen & Murray], 257

**Epidural anesthesia, See under Anesthetic techniques; Anesthetic techniques, epidural****Epidural blood patch, See under Anesthetic techniques****Epinephrine, See under Hormones; Sympathetic nervous system; Sympathetic nervous system, catecholamines****Epithelium-derived relaxing factor, See under Airway****Equipment****alarms**

standardized, more on (CO) [Zbinden & Hutmacher], 1125

**ampules**

glass, drug contamination from opening of (LR) [Zacher, Zornow & Evans], 893

**anesthesia machines**

FDA Anesthesia Apparatus Checkout Recommendations (check-list) and anesthesiologists' present checkout methods, evaluation of (CI) [March & Crowley], 724

**malfunctions**

and anesthesiologists' present checkout methods, evaluation of (CI) [March & Crowley], 724

**preuse checkout methods**

and anesthesiologists' present checkout methods, evaluation of (CI) [March & Crowley], 724

disadvantage of similar controls on (CO) [Maurer], 167

**blood pressure monitors****noninvasive**

peripheral nerve injury and (CO) [Schaer], 381  
for continuous noninvasive finger blood pressure during controlled hypotension (CI) [Epstein, Bartkowski & Huffnagle], 796

**breathing circuits**

and anesthesiologists' assessment of changes in neonatal pulmonary compliance by "educated hand" (LR) [Spears, Yeh, Fisher & Zwass], 693

in pediatric anesthesia (EV) [Steward], 555

**bronchial cuff**

inflation, Univent® tube for (CO) [Hannallah], 165

**bronchoscope****fiberoptic**

in management of difficult adult airway (MI) [Benumof], 1087

**catheters****epidural**

or spinal, that are difficult to remove, approach to (CO) [Gravenstein, Blackshear & Wissler], 544

**spinal**

or epidural, that are difficult to remove, approach to (CO) [Gravenstein, Blackshear & Wissler], 544

transtracheal large-bone intravenous, spontaneous ventilation *via*, is possible (CR) [Dallen, Wine & Benumof], 531

**cell separator**

and platelet function in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

**computers****models**

closed-circuit anesthesia and (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

**programming languages**

closed-circuit anesthesia and (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

**simulation**

closed-circuit anesthesia and (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

system model for closed-circuit inhalation anesthesia (CI) [Lerou, Dirksen, Beneken Kolmer, Booi & Borm], 230

automated interview *versus* personal interview (CI) [Lutner, Roizen, Stocking, Thisted, Kim, Duke, Pompei & Cassel], 394

**electrocautery**

permanent ventricular pacemaker and (CR) [Ducey, Fincher & Baysinger], 533

**fiberoptic bronchoscope tube changer**

additional safety measures when changing endotracheal tubes (CO) [Benumof], 921

**fiberscopes****flexible**

observation of spinal canal and cisternae with (LR) [Shimoji, Fujioka, Onodera, Hokari, Fukuda, Fujiwara & Hatori], 341

**Finapres®**

for continuous noninvasive finger blood pressure during controlled hypotension (CI) [Epstein, Bartkowski & Huffnagle], 796

**illuminating stylet**

in management of difficult adult airway (MI) [Benumof], 1087

**jet stylet**

in management of difficult adult airway (MI) [Benumof], 1087

**laryngeal mask**

for fiberoptic airway endoscopy in pediatric anesthesia (CO) [Mackawa, Mikawa, Tanaka, Goto & Obara], 169

**laryngoscopes**

in management of difficult adult airway (MI) [Benumof], 1087

**lasers**

in assessment of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**mask(s)****laryngeal**

should it be routinely used in patients undergoing thyroid surgery? (CO) [Charters, Cave-Bigley & Roysam], 918

should it be routinely used in patients undergoing thyroid surgery? (CO) [Tanigawa, Inoue & Iwata], 919

use of, in child with tracheal stenosis (CR) [Asai, Fujise & Uchida], 903

**monitors****blood pressure**

for continuous noninvasive finger blood pressure during con-



- trolled hypotension (CI) [Epstein, Bartkowski & Hufnagle], 796
- myeloscope**  
fiberoptic  
observation of spinal canal and cisternae with (LR) [Shimoji, Fujioka, Onodera, Hokari, Fukuda, Fujiwara & Hatori], 341
- nasopharyngeal airway**  
in management of difficult adult airway (MI) [Benumof], 1087
- needle(s)**  
proper size, for performing cervical epidural injections (CO) [Goffen], 166  
proper size, for performing cervical epidural injections (CO) [Jackson & Rauck], 166
- Sprotte**  
failed spinal anesthesia with (CO) [Crone & Vogel], 717
- oropharyngeal airway**  
in management of difficult adult airway (MI) [Benumof], 1087
- pacemaker**  
permanent ventricular, therapeutic suppression of, using peripheral nerve stimulator (CR) [Ducey, Fincher & Baysinger], 533
- Paryngeal mask airway**  
in management of difficult adult airway (MI) [Benumof], 1087
- tube(s)**  
endotracheal  
and pressure support work for breathing (CI) [Brochard, Rua, Lorino, LeMaire & Harf], 739  
transparent dressing for secure fixation of (CO) [Mikawa, Mac-kawa, Goto, Yaku & Obara], 1123
- Tuohy-Borst adapter**  
complication caused by, in pulmonary artery catheter insertion (CO) [Cohen & Whalen], 714  
complication caused by, in pulmonary artery catheter insertion (CO) [Cutarelli], 714
- Univent® tube**  
for single lung ventilation (CO) [Hannallah], 165  
aids for fiberoptically guided intubation in children (CO) [Wilson], 549
- Ether, See under Anesthetics, volatile**
- Ethics**  
do-not-resuscitate orders  
during anesthesia and surgery (CO) [Daly & Seravalli], 709  
during anesthesia and surgery (CO) [Truog], 710  
in publishing  
and the "operator" (CO) [Knill], 545  
and the "operator" (CO) [Smith, Miller, Saidman & Morgan], 545  
truth in advertising: *The Journal's* responsibility (CO) [Atkins], 547  
truth in advertising: *The Journal's* responsibility (CO) [Zapol], 547
- Evoked potentials, See under Brain; Monitoring**  
monitoring of, *See under Monitoring*
- Extracorporeal shock wave lithotripsy, See under Kidney**
- Extubation, See under Airway**  
tracheal, *See under Airway; Complications*

F

- Factor XII deficiency, See under Blood**
- Fentanyl, See under Analgesics; Analgesics, epidural; Analgesics, intravenous; Anesthetics, intravenous; Pharmacokinetics**
- Fetal heart rate, See under Monitoring**
- Fiberoptic bronchoscope, See under Equipment**  
tube changer, *See under Equipment*

- Fiberoptic bronchoscopy, See under Anesthetic techniques; Monitoring**
- Fiberoptic intubation, See under Anesthetic techniques**
- Fiberscopes, See under Equipment**
- Finapres®, See under Equipment**
- Flow cytometry, See under Measurement techniques**
- Flumazenil, See under Antagonists, benzodiazepine**
- Forearm compartment syndrome, See under Complications**
- Foreign bodies, See under Complications**

G

- GABA, See under Receptors, benzodiazepines**
- GABA-B, See under Receptors**
- GABA-mediated inhibition, See under Brain**
- Gallopamil, See under Pharmacology, calcium channel-blocking drugs**
- Gastrointestinal tract**  
splanchnic nerve activity  
spinal blockade alters (LI) [Jordan & Miller], 654
- G-CSF, See under Immunology, colony-stimulating factors**
- General anesthesia, See under Anesthesia**
- Genetic factors**  
molecular biology  
application of, to anesthesiology (CO) [Lightstone], 1126
- Genetics**  
molecular  
in diagnosis of malignant hyperthermia, caffeine halothane muscle contracture test compared to (CI) [MacKenzie, Allen, Lahay, Crossan, Nolan, Mettler, Worton, MacLennan & Korneluk], 4  
and malignant hyperthermia (EV) [Levitt, Meyers, Fletcher & Rosenberg], 1
- Glucose, See under Metabolism**
- Glutamate, See under Antagonists; Receptors**
- Glycoproteins**  
platelet, *See under Blood, coagulation*
- Glycopyrrolate, See under Parasympathetic nervous system**
- GM-CSF, See under Immunology, colony-stimulating factors**
- Guillain-Barré syndrome, See under Complications**

H

- Halothane, See under Anesthetics, volatile**
- Headache, See under Complications**
- Heart**  
abnormal automaticity  
effects of halothane, enflurane, and isoflurane on (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847
- afterload**  
and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464
- arrhythmia(s)**  
electrophysiology  
dantrolene suppression of, in malignant hyperthermia (CI) [Kentsch, Roewer, Kunze & Kuck], 583  
and anesthetics and automaticity in latent pacemaker fibers (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98  
effects of halothane, enflurane, and isoflurane on (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847  
and effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClerman], 866  
electrophysiologic effects of amiodarone and halothane on (LI) [Gallagher], 106

- epinephrine-induced, enhancement by propofol (LI) [Kamibayashi, Hayashi, Sumikawa, Yamatodani, Kawabata & Yoshiya], 1035
- epinephrine-induced, mechanism of antiarrhythmic effect of dexmedetomidine on (CO) [Eisenach], 1116
- epinephrine-induced, mechanism of antiarrhythmic effect of dexmedetomidine on (CO) [Hayashi & Sumikawa], 1116
- and halothane and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszio, Kampine & Bosnjak], 298
- and halothane, ouabain, and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszio, Kampine & Bosnjak], 305
- protocols, anesthetic-epinephrine (LI) [Woeckel, Rusy & Atlee], 884
- and successful defibrillation with near-simultaneous orthogonal discharges (CR) [Horrow & Pharo], 362
- artificial**
- peripheral vascular effects of thiopental and propofol in humans with (CI) [Rouby, Andreev, Léger, Arthaud, Landault, Vi-caut, Maistre, Eurin, Gandjbakch & Viars], 32
- atrial rate**
- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062
- atrial septal defect**
- protamine-induced right-to-left intracardiac shunting (CR) [Cheung, Weiss & Savino], 904
- atrioventricular conduction time**
- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062
- atrium**
- halothane inhibits residual fast sodium channels in (CO) [Chou, Wei & Lin], 716
- automaticity**
- normal
- halothane and (LI) [Polic, Atlee, Laszio, Kampine & Bosnjak], 298
- halothane, ouabain and (LI) [Polic, Atlee, Laszio, Kampine & Bosnjak], 305
- Purkinje fiber
- volatile anesthetics and (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98
- autoregulation**
- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062
- blood flow**
- coronary
- with isoflurane or halothane during acute coronary artery occlusion (LI) [Moore, Kien, Reitan, White & Safwat], 854
- epinephrine dosage effects on, in model of cardiopulmonary resuscitation (LI) [Berkowitz, Gervais, Schleien, Koehler, Dean & Traystman], 1041
- blood pressure**
- and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464
- Ca<sup>2+</sup> homeostasis**
- halothane effects on, in myocytes (LI) [Wilde, Knight, Sheth & Williams], 1075
- cardiac arrest**
- after spinal anesthesia treated with "pacing thump" (CO) [Gibbons & Ditto], 705
- cardiac glycosides**
- halothane, ouabain and (LI) [Polic, Atlee, Laszio, Kampine & Bosnjak], 305
- cardiopulmonary resuscitation**
- and hypoxia among experts (CO) [Roy], 915
- swine model of, epinephrine dosage effects on (LI) [Berkowitz, Gervais, Schleien, Koehler, Dean & Traystman], 1041
- cardiovascular development**
- and halothane depression of baroreflexes in growing piglets (LI) [Palmisano, Clifford, Hoffmann, Seagard, Coon & Kampine], 512
- cardioverter-defibrillator**
- automatic implantable
- and successful defibrillation with near-simultaneous orthogonal discharges (CR) [Horrow & Pharo], 362
- complete heart block**
- during anesthesia: effect of scopolamine *versus* ischemia of AV node (CR) [Park & Lowenstein], 367
- congestive heart failure**
- peripartum, management of, in patient with myotonic dystrophy (CR) [Dodds, Haney & Appleton], 907
- postsurgical, following combined epidural and general anesthesia or general anesthesia (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611
- contractility**
- and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464
- coronary artery disease**
- steal-prone coronary anatomy in, isoflurane and halothane and (CI) [Pulley, Kirvassilis, Kelemenos, Kater, Barzilai, Genton, Efsthathiou & Lappas], 756
- surgery in, desflurane and isoflurane compared for (CI) [Thomson, Bowering, Hudson, Frai & Rosenbloom], 776
- coronary blood flow**
- effects of halothane and isoflurane on (LI) [Kenny, Proctor, Schmeling, Kampine & Wartier], 640
- steal-prone coronary anatomy in, isoflurane and halothane and (CI) [Pulley, Kirvassilis, Kelemenos, Kater, Barzilai, Genton, Efsthathiou & Lappas], 756
- coronary circulation**
- effects of halothane and isoflurane on (LI) [Kenny, Proctor, Schmeling, Kampine & Wartier], 640
- coronary flow**
- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062
- coronary hemodynamics**
- effects of halothane and isoflurane on (LI) [Kenny, Proctor, Schmeling, Kampine & Wartier], 640
- coronary reserve**
- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062
- coronary resistance vessels**
- direct vasodilation of, coronary flow reserve and (LI) [Larach & Schuler], 268
- coronary spasm**
- ST-segment elevation during (CR) [Whitten, Latson, Cochran, Elmore & Griffin], 161
- coronary vasodilation**
- effects of halothane and isoflurane on (LI) [Kenny, Proctor, Schmeling, Kampine & Wartier], 640

**cyanotic congenital disease**

- pulse oximetry and arterial end-tidal carbon dioxide differences in (CI) [Fletcher], 210

**defibrillation**

- with near-simultaneous orthogonal discharges (CR) [Horror & Pharo], 362

**dysrhythmias**

- phenol motor point blocks in children and (CR) [Morrison, Matthews, Washington, Fennessey & Harrison], 359

**electrophysiology**

- and anesthetics and automaticity in latent pacemaker fibers (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98
- effects of halothane, enflurane, and isoflurane on (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847
- and effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClernan], 866
- and halothane and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298
- and halothane, ouabain, and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 305

**heart rate**

- drug effects
  - in infants and children anesthetized with halothane and nitrous oxide (CI) [Palmisano, Setlock, Brown, Siker & Tripuraneni], 238
  - in response to desflurane, in infants and children (CI) [Taylor & Lerman], 975

**infarction**

- and effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClernan], 866

**inotropism**

- and pharmacokinetics of amrinone during cardiac surgery (CI) [Bailey, Levy, Rogers, Szlam & Hug], 961

**ischemia**

- pressure-rate quotient
  - in patients undergoing coronary artery bypass graft surgery (CO) [Buffington], 710
  - in patients undergoing coronary artery bypass graft surgery (CO) [Gordon, Urban, O'Connor & Barash], 711
- acute ventricular wall motion heterogeneity in (EV) [Lowenstein, Haering & Douglas], 385
- no worsening of, with isoflurane or halothane (LI) [Moore, Kien, Reitan, White & Safwat], 854

**isolated perfused**

- coronary hemodynamics
- volatile anesthetics and (LI) [Larach & Schuler], 268

**lactate production**

- myocardial, and ischemia during acute coronary artery occlusion (LI) [Moore, Kien, Reitan, White & Safwat], 854

**left ventricular pressure**

- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062

**long QT syndrome**

- and effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClernan], 866

**myocardial function**

- and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464

**myocardial infarction**

- effects of halothane, enflurane, and isoflurane on automaticity and rhythmic activity of Purkinje fibers in (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847

- postsurgical, following combined epidural and general anesthesia or general anesthesia (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

**myocardial ischemia**

- effects of halothane, enflurane, and isoflurane on automaticity and rhythmic activity of Purkinje fibers in (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847
- steal-prone coronary anatomy in, isoflurane and halothane and (CI) [Pulley, Kirvassilis, Kelemerenos, Kater, Barzilai, Genton, Efstathiou & Lappas], 756

**myocardial metabolism**

- steal-prone coronary anatomy in, isoflurane and halothane and (CI) [Pulley, Kirvassilis, Kelemerenos, Kater, Barzilai, Genton, Efstathiou & Lappas], 756

**myocardial oxygen consumption**

- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062

**myocardial performance**

- and myocardial oxygen demand indices in patients awake and during anesthesia (CI) [Hoeft, Sonntag, Stephan & Kettler], 49

**myocardial perfusion**

- assessment of, during coronary artery bypass graft (CI) [Aronson, Lee, Wiencek, Feinstein, Roizen, Karp & Ellis], 433

**negative inotropy**

- and halothane effects on  $Ca^{2+}$  in myocytes (LI) [Wilde, Knight, Sheth & Williams], 1075

**nifedipine**

- in ST-segment elevation during cardiac electrophysiologic surgery (CR) [Whitten, Latson, Cochran, Elmore & Griffin], 161

**normal automaticity**

- effects of halothane, enflurane, and isoflurane on (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847

**ouabain**

- halothane, and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 305

**oxygen consumption**

- effects of halothane and isoflurane on (LI) [Kenny, Proctor, Schmeling, Kampine & Wartier], 640
- with isoflurane or halothane during acute coronary artery occlusion (LI) [Moore, Kien, Reitan, White & Safwat], 854
- and myocardial oxygen demand indices in patients awake and during anesthesia (CI) [Hoeft, Sonntag, Stephan & Kettler], 49

**oxygen delivery**

- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062

**oxygen extraction**

- comparison of halothane, enflurane, and isoflurane with nitrous oxide on, in isolated hearts (LI) [Stowe, Monroe, Marijic, Bosnjak & Kampine], 1062

**pacemakers**

- permanent ventricular, therapeutic suppression of, using peripheral nerve stimulator (CR) [Ducey, Fincher & Baysinger], 533
- subsidiary atrial automaticity, halothane and (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298
- automaticity, halothane, ouabain and (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 305

- papavarine**  
in ST-segment elevation during cardiac electrophysiologic surgery (CR) [Whitten, Latson, Cochran, Elmore & Griffin], 161
- patent foramen ovale**  
intraoperative ventilator-induced right-to-left intracardiac shunt in (CR) [Jaffe, Pinto, Schnittger & Brock-Utne], 153
- preload**  
and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464
- pressure work index**  
and myocardial oxygen demand indices in patients awake and during anesthesia (CI) [Hoeft, Sonntag, Stephan & Kettler], 49
- Purkinje fibers**  
automaticity  
volatile anesthetics and (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98  
effects of halothane, enflurane, and isoflurane on (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847  
electrophysiologic effects of amiodarone and halothane on (LI) [Gallagher], 106
- rate pressure product**  
and myocardial oxygen demand indices in patients awake and during anesthesia (CI) [Hoeft, Sonntag, Stephan & Kettler], 49
- reentry**  
and effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClerman], 866
- regional myocardial performance**  
and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464
- sarcoplasmic reticulum**  
and halothane effects on  $Ca^{2+}$  in myocytes (LI) [Wilde, Knight, Sheth & Williams], 1075
- sinus node**  
and halothane and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298  
and halothane, ouabain, and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 305
- tension time index**  
and myocardial oxygen demand indices in patients awake and during anesthesia (CI) [Hoeft, Sonntag, Stephan & Kettler], 49
- triggered activity**  
effects of halothane, enflurane, and isoflurane on (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847
- vascular pressures**  
inhaled nitric oxide prevents heparin-protamine vasoconstriction (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990
- ventricular tachycardia**  
effects of halothane on, in intact dogs (LI) [Gallagher & McClerman], 866
- wall motion abnormality**  
acute heterogeneity (EV) [Lowenstein, Haering & Douglas], 385
- "pacing thump"**  
sudden asystole after spinal anesthesia treated with (CO) [Gibbons & Ditto], 705  
dexmedetomidine and (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113  
ischemia of, *versus* scopolamine, during anesthesia in coronary artery disease (CR) [Park & Lowenstein], 367
- Heart rate, See under Circulation; Heart**
- Hemofiltration, See under Blood**
- continuous arteriovenous, See under Kidney**
- Hemoglobin, See under Blood**
- oxygen saturation**  
in congenital heart disease (CI) [Fletcher], 210
- Hemorrhagic shock, See under Shock**
- Heparin, See under Blood, anticoagulants**
- Hepatic blood flow, See under Liver**
- Herpes simplex, See under Complications**
- Herpes simplex labialis, See under Complications**
- High-pressure liquid chromatography, See under Measurement techniques**
- Hippocampus, See under Brain**
- Histamine**  
as biochemical marker of anaphylactoid reactions to drugs (CI) [Laroche, Vergnaud, Sillard, Soufarapis & Bricard], 945
- History**  
a second Sir Humphrey Davy? (CO) [Hool], 705  
a second Sir Humphrey Davy? (CO) [Saidman], 705
- Hormones**
- adrenal**  
cortisol  
levels of, following alfentanil infusion for postoperative pain (CI) [Camu & Debuquoy], 171
- antidiuretic**  
vasopressin  
does magnesium sulfate alter maternal cardiovascular response to? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010
- epinephrine**  
in study of halothane and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298
- norepinephrine**  
in study of halothane and atrial pacemaker automaticity (LI) [Polic, Atlee, Laszlo, Kampine & Bosnjak], 298
- parathyroid hormone**  
responses to hypocalcemia during cardiopulmonary bypass (CI) [Robertie, Butterworth, Royster, Preilipp, Dudas, Black, Cole & Zaloga], 43
- prostaglandins**  
thromboxane  
constriction of trachea in response to oxybarbiturates and thiobarbiturates mediated by (LI) [Curry, Lenox, Spannake & Hirshman], 679
- thromboxane  $A_2$**   
nitric acid prevents pulmonary hypertension induced by, during heparin-protamine reaction (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990
- 5-Hydroxytryptamine, See under Serotonin**
- Hypercapnia, See under Carbon dioxide**
- Hypercapnic drive, See under Lung(s)**
- Hypercarbia, See under Carbon dioxide**
- Hyperesthesia, See under Nerve(s), injury**
- Hyperglycemia, See under Metabolism**
- Hyperkalemia, See under Ions, potassium**
- Hyperthermia**
- malignant**  
diagnosis, laboratory  
and normal muscle calcium uptake (CR) [Jaffe, Martucci, Gronert, Elliott & Cardinet], 525  
dihydropyridine receptor and (CI) [Adnet, Krivosic-Horber, Adamantidis, Reyford, Cordonnier & Haudecoeur], 415

molecular genetic diagnosis of, and caffeine halothane muscle contracture test (CI) [MacKenzie, Allen, Lahey, Crossan, Nolan, Mettler, Worton, MacLennan & Korneluk], 4  
molecular genetics and (EV) [Levitt, Meyers, Fletcher & Rosenberg], 1  
and propofol in Duchenne muscular dystrophy (CO) [Ginsburg, Porterfield & Lippman], 376  
during sevoflurane anesthesia in child with central core disease (CR) [Otsuka, Komura, Mayumi, Yamamura, Kemmotsu & Mukaida], 699  
suppression of arrhythmias during treatment of, dantrolene in (CI) [Kentsch, Roewer, Kunze & Kuck], 583

**Hypertonic saline, See under Shock**

**Hypnotics**

**barbiturates**

pentobarbital

pharmacodynamics of, influence of cryogenic brain injury on (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634

**benzodiazepines**

midazolam

flumazenil reversal of (CI) [Gross, Weller & Conard], 179

neurotoxicity in rabbit (LI) [Malinovsky, Cozian, Lepage, Musini, Pinaud & Souron], 91

**Hypocapnia, See under Carbon dioxide**

**Hypotension, See under Anesthetic techniques; Blood pressure; Complications**

**Hypothalamus, See under Brain**

**Hypothermia**

cerebral metabolism during (LI) [Michenfelder & Milde], 130

isoflurane, and light reflex (CI) [Larson, Sessler, McGuire & Hynson], 62

mild perianesthetic, physiologic responses to (CI) [Sessler, Rubinstein & Moayeri], 594

and serum potassium concentration (CO) [Sprung, Cheng & Bosnjak], 164

**Hypoxia, See under Complications**

among experts (CO) [Roy], 915

in volatile anesthetics and hepatic artery ligation (LI) [Fujita, Kimura, Hamada & Takaori], 313

I

**Illuminating stylet, See under Equipment**

**Immune response**

**anaphylactoid**

tryptase

as biochemical marker of anaphylactoid reactions to drugs (CI) [Laroche, Vergnaud, Sillard, Soufarapis & Bricard], 945

and effect of dopamine on renal function in liver transplantation (CI) [Swygert, Roberts, Valek, Brajtford, Brown, Gunning, Paulsen & Ramsay], 571

**Immunology**

**colony-stimulating factors**

G-CSF

anesthetic considerations in patients receiving (CR) [Tobias & Furman], 536

GM-CSF

anesthetic considerations in patients receiving (CR) [Tobias & Furman], 536

**Indocyanine green clearance, See under Liver; Measurement techniques**

**Indomethacin, See under Pharmacology**

**Infection**

**tetanus**

undiagnosed, intractable pharyngeal spasm following tracheal extubation in (CR) [Baronia, Singh & Dhiman], 1111

**Inhalational anesthesia, See under Anesthetic techniques**

**Inhibition, See under Metabolism**

**Inspiratory pressure support, See under Ventilation**

**Insulin, See under Metabolism**

**Intensive care**

**critical care**

and ventilation-perfusion ratios in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730

**Interactions (drug)**

**additivity**

of nitrous oxide to isoflurane MAC in infants and children (CI) [Murray, Mehta & Forbes], 186

alfentanil (LR) [Kharasch, Hill & Eddy], 520

midazolam and/or butorphanol (CO) [Dershwitz, Rosow, DiBiase & Zaslavsky], 707

midazolam and/or butorphanol (CO) [Kestin], 706

midazolam and/or butorphanol (CO) [Sosis], 706

**Internal jugular vein cannulation, See under Anesthetic techniques**

**Internal jugular vein catheterization, See under Anesthetic techniques**

**Intracranial pressure, See under Brain**

**Intrathecal analgesics, See under Analgesics**

**Intravenous anesthesia, See under Anesthetic techniques**

**Intubation**

**difficult**

in Larsen's syndrome (CR) [Stevenson, Hall & Palmieri], 142

**tracheal**

awake

in management of difficult adult airway (MI) [Benumof], 1087

direct vision

in management of difficult adult airway (MI) [Benumof], 1087

fiberoptic

in management of difficult adult airway (MI) [Benumof], 1087

retrograde

in management of difficult adult airway (MI) [Benumof], 1087

additional safety measures when changing endotracheal tubes (CO) [Benumof], 921

**Ions**

**calcium**

**calcium agonist**

BAY K8644, effects of, on skeletal muscle from patients susceptible to malignant hyperthermia (CI) [Adnet, Krivosic-Horber, Adamantidis, Reyford, Cordonnier & Haudecoeur], 415

**calcium-channel blocking drugs**

halothane depresses binding to bovine heart sarcolemma (LI) [Hoehner, Quigg & Blanck], 1019

**channel blocking effects**

on cardiac conduction system, intravenous dantrolene does not exhibit (CI) [Kentsch, Roewer, Kunze & Kuck], 583

effects of, on skeletal muscle from patients susceptible to malignant hyperthermia (CI) [Adnet, Krivosic-Horber, Adamantidis, Reyford, Cordonnier & Haudecoeur], 415

halothane effects on, in myocytes (LI) [Wilde, Knight, Sheth & Williams], 1075

and hypocalcemia during cardiopulmonary bypass (CI) [Robertie, Butterworth, Royster, Preilipp, Dudas, Black, Cole & Zaloga], 43



should it be administered prior to separation from cardiopulmonary bypass (CO) [Butterworth, Royster, Prielipp & Zaloga], 1121

should it be administered prior to separation from cardiopulmonary bypass (CO) [Hosking], 1121

#### calcium blockers

##### tetrodotoxin

in study of anesthetics and coronary flow reserve (LI) [Larach & Schuler], 268

#### magnesium

##### magnesium sulfate

and vasopressors in gravid ewes (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010

and hypocalcemia during cardiopulmonary bypass (CI) [Robertie, Butterworth, Royster, Preilipp, Dudas, Black, Cole & Zaloga], 43

#### potassium

##### hyperkalemia

in disuse-related potassium efflux to succinylcholine (LI) [Fung, White, Jones & Gronert], 650

concentration, hypothermia and (CO) [Sprung, Cheng & Bosnjak], 164

#### sodium

residual fast channels in human atrial muscle, halothane inhibits (CO) [Chou, Wei & Lin], 716

Ischemia, *See under Brain*

Isoflurane, *See under Anesthetics, volatile*

## J

Jet stylet, *See under Equipment*

#### Journals

##### Anesthesiology

truth in advertising and (CO) [Atkins], 547

truth in advertising and (CO) [Zapol], 547

##### ethics in publishing

and the "operator" (CO) [Knill], 545

and the "operator" (CO) [Smith, Miller, Saidman & Morgan], 545

## K

Ketamine, *See under Anesthetics, intravenous; Anesthetics, oral*

#### Kidney

##### adrenal medulla

response to hemorrhagic hypotension, spinal blockade altering (LI) [Jordan & Miller], 654

##### extracorporeal shock wave lithotripsy

hypoxemia after, in adult due to pulmonary contusion induced by (CR) [Malhotra, Rosen & Slepian], 529

#### failure

##### acute

in liver transplant recipients, effect of dopamine on (CI) [Swygert, Roberts, Valek, Brajtord, Brown, Gunning, Paulsen & Ramsay], 571

##### chronic

in liver transplant recipients, effect of dopamine on (CI) [Swygert, Roberts, Valek, Brajtord, Brown, Gunning, Paulsen & Ramsay], 571

#### hemofiltration

##### continuous arteriovenous

management of peripartum congestive heart failure using, in patient with myotonic dystrophy (CR) [Dodds, Haney & Appleton], 907

## L

L-659,066, *See under Sympathetic nervous system,  $\alpha_2$ -adrenergic agonists*

#### Labor

preterm, *See under Pregnancy*

Lactate, *See under Metabolism*

Larsen's syndrome, *See under Complications*

Laryngeal mask, *See under Equipment*

Laryngeal mask airway, *See under Equipment*

Laryngoscopes, *See under Equipment*

Laryngoscopy, *See under Surgery*

Lasers, *See under Equipment*

Learning, *See under Anesthesia, depth*

Left ventricular pressure, *See under Heart*

Lidocaine, *See under Anesthetics, local; Pharmacodynamics, protein binding, lidocaine*

Lithotomy, *See under Position*

#### Liver

##### blood flow

in hepatic artery ligation, volatile anesthetics and (LI) [Fujita, Kimura, Hamada & Takaori], 313

##### indocyanine green clearance

in use of volatile anesthetics in hepatic artery ligation (LI) [Fujita, Kimura, Hamada & Takaori], 313

L-Medetomidine, *See under Sympathetic nervous system*

Long QT syndrome, *See under Heart*

Low-flow anesthetic techniques, *See under Anesthetic techniques*

#### Lung(s)

##### circulation

and endogenous nitrovasodilator and new cellular messenger (EV) [Johns], 927

in protamine-induced right-to-left intracardiac shunting (CR) [Cheung, Weiss & Savino], 904

and pulmonary vasoregulation posthypoperfusion (LI) [Fehr, Nyhan, Chen & Murray], 257

in response to desflurane, in infants and children (CI) [Taylor & Lerman], 975

and thromboxane-induced pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475

##### compliance

neonatal, can anesthesiologists assess changes in manually (LR) [Spears, Yeh, Fisher & Zwass], 693

pediatric anesthesiologist and (EV) [Steward], 555

after sufentanil-pancuronium induction sequences (CI) [Horrow, Abrams, Van Riper, Lambson & Storella], 969

##### complications

postsurgical, following combined epidural and general anesthesia or general anesthesia (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

##### function

and ventilation-perfusion ratios in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730

##### hypercapnic drive

and ventilation after propofol and thiopental (CI) [Blouin, Conard & Gross], 940

##### hypertension

in protamine-induced right-to-left intracardiac shunting (CR) [Cheung, Weiss & Savino], 904

##### intrapulmonary oxygen consumption

in patients with pneumonia (CI) [Gea, Roca, Torres, Agusti, Wagner & Rodriguez-Roisin], 782

**pneumonia**

mechanisms of abnormal gas exchange in patients with (CI) [Gea, Roca, Torres, Agusti, Wagner & Rodriguez-Roisin], 782

**pulmonary capillary pressure**

and thromboxane-induced pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475

**pulmonary disease**

**obstructive**

and work of breathing caused by endotracheal tube (CI) [Brochard, Rua, Lorino, LeMaire & Harf], 739

**pulmonary edema**

thromboxane-induced (LI) [Wakerlin, Benson & Pearl], 475

**pulmonary hypertension**

and thromboxane-induced pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475

**pulmonary vascular resistance**

and thromboxane-induced pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475

**respiratory failure**

and ventilation-perfusion ratios in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730

**transplant**

perioperative management of patients receiving (CO) [Heerdt & Triantafillou], 922

**vascular resistance**

inhaled nitric oxide prevents heparin-protamine vasoconstriction (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990

**venoconstriction**

and thromboxane-induced pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475

**venous admixture**

in patients with pneumonia (CI) [Gea, Roca, Torres, Agusti, Wagner & Rodriguez-Roisin], 782

**ventilation**

after propofol and thiopental (CI) [Blouin, Conard & Gross], 940

**ventilation-perfusion ratios**

in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730

**ventilation-perfusion relationships**

in patients with pneumonia (CI) [Gea, Roca, Torres, Agusti, Wagner & Rodriguez-Roisin], 782

**M**

**MAC, See under Potency, anesthetic**

**Magnesium, See under Ions**

**Magnesium sulfate, See under Ions, magnesium**

**Magnetic resonance imaging, See under Measurement techniques**

**Malignant hyperthermia, See under Complications; Hyperthermia**

**Manual ventilation, See under Ventilation**

**Masks, See under Equipment**

**Measurement techniques**

**activated partial thromboplastin time**

value of, for preoperative detection of coagulation disorders, questionnaire for (CO) [Janvier, Winckel & Freyburger], 920

**blood pressure**

for continuous noninvasive finger blood pressure during controlled hypotension (CI) [Epstein, Bartkowski & Hufnagel], 796

**Doppler**

in assessment of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**echocardiography**

intraoperative, during pericardiotomy (CR) [Hogue, Platin, Barzilai & Kaiser], 701

transesophageal and two-dimensional

measurement of pulmonary blood flow with (CI) [Savino, Troianos, Aukburg, Weiss & Reichel], 445

two-dimensional transesophageal contrast

assessment of myocardial perfusion during coronary artery bypass graft surgery (CI) [Aronson, Lee, Wiencek, Feinstein, Roizen, Karp & Ellis], 433

**electromyography**

in assessment of diaphragmatic contractility under atracurium (LI) [Goldman, Road & Grassino], 123

in assessment of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**flow cytometry**

in assessment of platelet activation and aggregation during cardiopulmonary bypass (CI) [Rinder, Bohnert, Rinder, Mitchell, Ault & Hillman], 388

in assessment of platelet surface adhesion during cardiopulmonary bypass (CI) [Rinder, Mathew, Rinder, Bonan, Ault & Smith], 563

**high-pressure liquid chromatography**

in study of influence of cryogenic brain injury on pharmacodynamics of pentobarbital (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634

**indocyanine green clearance**

in use of volatile anesthetics in hepatic artery ligation (LI) [Fujita, Kimura, Hamada & Takaori], 313

**magnetic resonance imaging**

pulse oximetry during, burns associated with (CO) [Bashein & Syrov], 382

**multiple inert gas elimination**

in patients with pneumonia (CI) [Gea, Roca, Torres, Agusti, Wagner & Rodriguez-Roisin], 782

**myelography**

headache following, unusual cause of (CR) [Parlow & Einarson], 145

**oximetry**

in airway obstruction in former premature infants (CI) [Kurth & LeBard], 22

during external compression of abdominal aorta for reversal of Tetralogy of Fallot cyanotic crisis (CR) [Baele, Rennotte & Veyckemans], 146

**phlethysmography**

in assessment of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**platelet adhesion**

during cardiopulmonary bypass (CI) [Rinder, Mathew, Rinder, Bonan, Ault & Smith], 563

**pneumography**

in airway obstruction in former premature infants (CI) [Kurth & LeBard], 22

**pulse oximetry**

in congenital heart disease (CI) [Fletcher], 210

- radioimmunoassay**  
to determine etiology and drugs responsible for fatal anaphylaxis during anesthesia (CR) [Fisher, Baldo & Silbert], 1112
- Read rebreathing method**  
in assessment of flumazenil reversal of midazolam (CI) [Gross, Weller & Conard], 179
- receptor gene**  
of susceptibility to malignant hyperthermia (CI) [MacKenzie, Allen, Lahey, Crossan, Nolan, Mettler, Worton, MacLennan & Korneluk], 4
- sensitivity**  
malignant hyperthermia and (CR) [Jaffe, Martucci, Gronert, Elliott & Cardinet], 525
- sonomicrometry**  
in assessment of diaphragmatic contractility under atracurium (LI) [Goldman, Road & Grassino], 123
- specificity**  
malignant hyperthermia and (CR) [Jaffe, Martucci, Gronert, Elliott & Cardinet], 525
- thermodilution**  
in determination of pulmonary blood flow with (CI) [Savino, Troianos, Aukburg, Weiss & Reichek], 445
- tonometry**  
during anesthesia (LR) [Kemmotsu, Ueda, Otsuka, Yamamura, Winter & Eckerle], 333
- Mechanical ventilation, See under Ventilation**
- Medical records, See under Records**
- Memory**  
and alteration of autonomy site by injury prior to neurectomy (LI) [Katz, Vaccarino, Coderrec & Melzack], 876  
therapeutic suggestions for improved, during general anesthesia (CI) [Block, Ghoneim, Ping & Ali], 746
- Meninges, See under Spinal cord**
- Metabolism**
- alfentanil**  
human liver microsomal, influence of dexmedetomidine and clonidine on (LR) [Kharasch, Hill & Eddy], 520
- arachidonic acid**  
and pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475
- diabetes**  
effects of insulin infusion on plasma and brain glucose in (LI) [Hofer & Lanier], 673
- glucose**  
brain  
effects of insulin infusion on, in hyperglycemic diabetic rats (LI) [Hofer & Lanier], 673
- hyperglycemia**  
effects of insulin infusion on plasma and brain glucose in (LI) [Hofer & Lanier], 673  
little risk of hyperosmolar coma following, during cardiopulmonary bypass (CO) [Alberti], 913  
little risk of hyperosmolar coma following, during cardiopulmonary bypass (CO) [Hirsch & White], 912  
little risk of hyperosmolar coma following, during cardiopulmonary bypass (CO) [Metz], 912
- inhibition**  
hippocampal, propofol and (LI) [Albertson, Tseng & Joy], 82
- insulin**  
effects of infusion of, on plasma and brain glucose in hyperglycemic diabetic rats (LI) [Hofer & Lanier], 673
- lactate**  
production  
myocardial, and ischemia during acute coronary artery occlusion (LI) [Moore, Kien, Reitan, White & Safwat], 854
- streptozocin**  
to induce diabetes, in study of effects of insulin infusion on plasma and brain glucose, in rats (LI) [Hofer & Lanier], 673
- thromboxane**  
and pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475
- U46619**  
and pulmonary edema (LI) [Wakerlin, Benson & Pearl], 475
- Methemoglobinemia, See under Complications**
- Methohexital, See under Anesthetics, intravenous**
- Methylparaben, See under Preservatives**
- Midazolam, See under Anesthetics, intravenous; Anesthetics, oral; Hypnotics, benzodiazepines**
- Minimum alveolar concentration, See under Potency, anesthetic**
- MK-801, See under Antagonists, dizocilpine**
- Molecular biology, See under Genetic factors**
- Molecular genetics, See under Genetics**
- Monitoring**
- blood pressure**  
for continuous noninvasive finger blood pressure during controlled hypotension (CI) [Epstein, Bartkowski & Huffnagle], 796
- cardiac output**  
with transesophageal two-dimensional and Doppler echocardiography (CI) [Savino, Troianos, Aukburg, Weiss & Reichek], 445
- echocardiography**  
transesophageal  
in diagnosis of aortic dissection during cardiac surgery (CR) [Troianos, Savino & Weiss], 149  
intraoperative, ventilator-induced right-to-left intracardiac shunt during (CR) [Jaffe, Pinto, Schnittger & Brock-Utne], 153  
during protamine-induced right-to-left intracardiac shunting (CR) [Cheung, Weiss & Savino], 904  
and altered load dependence of postischemic myocardium (LI) [Buffington & Coyle], 464
- electrocardiography**  
ST-segment elevation during (CR) [Whitten, Latson, Cochran, Elmore & Griffin], 161
- electroencephalography**  
during carotid endarterectomy (CI) [Lam, Manninen, Ferguson & Nantau], 15  
and changes in arterial carbon dioxide tension during alfentanil/nitrous oxide anesthesia (CI) [Kalkman, Boezeman, Ribberink, Oosting, Deen & Bovill], 68
- end-tidal concentration**  
in response to desflurane, in infants and children (CI) [Taylor & Lerman], 975
- evoked potentials**  
somatosensory  
and changes in arterial carbon dioxide tension during alfentanil/nitrous oxide anesthesia (CI) [Kalkman, Boezeman, Ribberink, Oosting, Deen & Bovill], 68  
intrathecal morphine and (CI) [Schubert, Licina, Lineberry & Deers], 401  
during carotid endarterectomy (CI) [Lam, Manninen, Ferguson & Nantau], 15
- fetal heart rate**  
after epidural anesthesia (CI) [Loftus, Holbrook & Cohen], 406
- neuromuscular blockade**  
train-of-four count and reliability of antagonism of (CI) [Kopman], 588

**noninvasive blood pressure monitors**  
peripheral nerve injury and (CO) [Schaer], 381

**oximetry**  
effects of anemia on, in dogs (LI) [Lee, Tremper & Barker], 118

**pericardial effusion**  
intraoperative, during pericardiotomy (CR) [Hogue, Platin, Barzilai & Kaiser], 701

**pressure-flow plots**  
and pulmonary vasoregulation posthypoperfusion (LI) [Fehr, Nyhan, Chen & Murray], 257

**pulmonary blood flow**  
with transesophageal two-dimensional and Doppler echocardiography (CI) [Savino, Troianos, Aukburg, Weiss & Reichel], 445

**pulse oximetry**  
during magnetic resonance imaging, burns associated with (CO) [Bashein & Syrov], 382

pigtail (CO) [Jantzen & Hennes], 707

**stump pressure**  
during carotid endarterectomy (CI) [Lam, Manninen, Ferguson & Nantau], 15

  

during external compression of abdominal aorta for reversal of Tetralogy of Fallot cyanotic crisis (CR) [Baele, Rennotte Veyckemans], 146

**Monitors, See under Equipment**

**Morphine, See under Analgesics; Analgesics, intrathecal; Analgesics, opioid; Analgesics, opioids**

**Motor point block, See under Anesthetic techniques**

**Multiple inert gas elimination, See under Measurement techniques**

**Muscle**  
**cardiac**  
sarcolemma  
bovine, halothane depresses D600 binding to (LI) [Hoehner, Quigg & Blanck], 1019

**contractility**  
diaphragmatic, recovery of, from partial paralysis (LI) [Goldman, Road & Grassino], 123

**diaphragm**  
contractility, recovery of, from partial paralysis (LI) [Goldman, Road & Grassino], 123

**disuse**  
resistance to nondepolarizing relaxants  
and potassium efflux to succinylcholine (LI) [Fung, White, Jones & Gronert], 650

**myotonic dystrophy**  
management of peripartum congestive heart failure in patient with (CR) [Dodds, Haney & Appleton], 907

**skeletal**  
**diaphragm**  
mechanisms of displacement of, during spontaneous breathing (CO) [Sprung & Rodarte], 916

**paralysis**  
partial, effects of, on swallowing reflex in conscious humans (CI) [Isono, Ide, Kochi, Mizuguchi & Nishino], 980

**smooth**  
endothelium-derived relaxing factor  
effects of protamine (LI) [Akata, Yoshitake, Nakashima & Itoh], 833

inhaled, prevents heparin-protamine vasoconstriction (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990

**vascular smooth muscle**  
**vasodilation**  
by volatile anesthetics, coronary flow reserve and (LI) [Larach & Schuler], 268

**Myelography, See under Measurement techniques**

**Myeloscope, fiberoptic, See under Equipment**

**Myocardial infarction, See under Heart**

**Myocardial ischemia, See under Heart**

**Myocardial metabolism, See under Heart**

**Myocardial oxygen consumption, See under Heart**

**Myocardial performance, See under Heart**

**Myocardial perfusion, See under Heart**

**Myotonic dystrophy, See under Muscle**

N

**Nalbuphine, See under Analgesics; Analgesics, opioid**

**Nasal reflexes, See under Reflexes**

**Nasopharyngeal airway, See under Equipment**

**n-butyl-p-aminobenzoate, See under Anesthetics, local**

**Neck, See under Anatomy**

**Needles, See under Equipment**

**Negative introp, See under Heart**

**Neonatal anesthesia, See under Anesthesia**

**Neonates, See under Anesthesia, pediatric**

**Nerve palsy, See under Complications**

**Nerve(s)**  
**deafferentation**  
alters pattern of autonomy in rats (LI) [Katz, Vaccarino, Co-derrec & Melzack], 876

**injury**  
hyperesthesia  
spinal pharmacology of, induced by incomplete ligation of sciatic nerve (LI) [Yamamoto & Yaksh], 817

**plasticity**  
alters pattern of autonomy in rats (LI) [Katz, Vaccarino, Co-derrec & Melzack], 876

**potassium channel blockade**  
tetraethylammonium  
potentiates impulse inhibition by local anesthetics (LI) [Drachman & Strichartz], 1051

**sensitization**  
alters pattern of autonomy in rats (LI) [Katz, Vaccarino, Co-derrec & Melzack], 876

**Neuroblastoma, See under Sympathetic nervous system, catecholamines**

**Neurologic complications, See under Complications**

**Neuromuscular blockade, See under Monitoring**

**Neuromuscular blocking agents, See under Neuromuscular relaxants**

**Neuromuscular relaxants**  
**atracurium**  
diaphragmatic contractility under (LI) [Goldman, Road & Grassino], 123

neuromuscular blockade by, train-of-four count and reliability of antagonism of (CI) [Kopman], 588

**dantrolene**  
and cardiac conduction system in humans (CI) [Kentsch, Roewer, Kunze & Kuck], 583

**neuromuscular blocking agents**  
swallowing reflex and (CI) [Isono, Ide, Kochi, Mizuguchi & Nishino], 980

**ORG9426**  
neuromuscular effects of, in patients receiving balanced anesthesia (CI) [Foldes, Nagashima, Nguyen, Schiller, Mason & Ohta], 191

- pancuronium**  
sufentanil induction sequences, ventilatory compliance after (CI)  
[Horrow, Abrams, Van Riper, Lambson & Storella], 969
- succinylcholine**  
onset of disuse-related potassium efflux to (LI) [Fung, White,  
Jones & Gronert], 650  
in study of the influence of paraben preservatives on intracranial  
pressure in cats (LI) [Pompy, Karlin, Capuano, Cottrell &  
Hartung], 669
- vecuronium**  
neuromuscular blockade by, train-of-four count and reliability of  
antagonism of (CI) [Kopman], 588
- Neurons, See under Brain**
- Neurosurgical anesthesia, See under Anesthesia**
- Neurotoxicity, See under Complications; Toxicity**
- Neurotransmitters, See under Brain**
- Neutropenia, See under Blood**
- Nifedipine, See under Heart; Pharmacology, calcium antagonists**
- Nitric acid, See under Pharmacology, endothelium-derived relax-  
ing factor**
- Nitrous oxide, See under Anesthetics, gases**
- NMDA, See under Pharmacology**
- Nondopaminergic neurons, See under Brain**
- Noninvasive blood pressure monitors, See under Equipment; Moni-  
toring**
- Norepinephrine, See under Hormones; Sympathetic nervous sys-  
tem; Sympathetic nervous system, catecholamines**
- O**
- Obstetric anesthesia, See under Anesthesia**
- Obstructive pulmonary disease, See under Lung(s)**
- One lung ventilation, See under Anesthetic techniques**
- "Operator syndrome" in research, See under Research**
- Opioid analgesia, See under Analgesia**
- Opioid analgesics, See under Analgesics**
- Opioid receptors, See under Receptors**
- Opioids, See under Analgesics**
- Oral anesthetics, See under Anesthetics**
- ORG9426, See under Neuromuscular relaxants**
- Organizations**  
American Society of Anesthesiologists  
ASA award: John F. Nunn (SA) [Fink], 560  
Reports of Scientific Meetings  
Human Error in Anesthesia (SM), 553
- Oropharyngeal airway, See under Equipment**
- Ouabain, See under Heart; Pharmacology**
- Outpatient anesthesia, See under Anesthesia**
- Oximetry, See under Measurement techniques; Monitoring**
- Oxygen**  
measurement techniques  
hyperventilation reduces (CI) [Barker, Hyatt, Clarke &  
Temper], 619
- perfusion**  
hyperventilation reduces (CI) [Barker, Hyatt, Clarke &  
Temper], 619
- transcutaneous**  
hyperventilation reduces (CI) [Barker, Hyatt, Clarke &  
Temper], 619
- Oxygen consumption**  
intrapulmonary, *See under Lung(s)*
- Oxygen saturation, See under Hemoglobin**

**P**

- Pacemaker, See under Equipment; Heart**
- Pacemakers, See under Heart**
- "Pacing thump", See under Heart**
- Pain**  
burning  
of Guillain-Barré syndrome, opioid analgesics and (CO) [Ennis],  
913  
of Guillain-Barré syndrome, opioid analgesics and (CO) [War-  
field], 914
- cancer**  
blockade by n-butyl-p-aminobenzoate in (CI) [Korsten, Ack-  
erman, Grouls, van Zundert, Bon, Bal, Crommelin, Ribot,  
Hoefsloot & Sloff], 950
- chronic nonmalignant**  
neurolytic celiac plexus block for treatment of (CR) [Hastings &  
McKay], 156
- phantom limb**  
injury before neurectomy alters autonomy site and (LI) [Katz,  
Vaccarino, Coderrec & Melzack], 876
- postoperative**  
alfentanil for: epidural *versus* intravenous routes (CI) [Camu &  
Debuquoy], 171  
epidural morphine is safe on surgical wards (CI) [Ready, Loper,  
Nessly & Wild], 452  
and epidural nalbuphine or morphine after thoracotomy (CI)  
[Etches, Sandler & Lawson], 9  
intravenous clonidine for analgesia in (CI) [Bernard, Hommeril,  
Passuti & Pinaud], 577  
and site of hemodynamic effects of  $\alpha_2$ -adrenergic agonists (CO)  
[De Kock], 715
- Pancuronium, See under Neuromuscular relaxants**
- Paralysis, See under Muscle, skeletal**
- Papavarine, See under Heart**
- Parasympathetic nervous system**  
acetylcholine  
in study of bronchodilation and airway epithelium (LI) [Sayiner,  
Lorenz, Warner & Rehder], 75
- atropine**  
dose-response for, and heart rate in children (CI) [Palmisano,  
Setlock, Brown, Siker & Tripuraneni], 238  
intravenous, in humans, clonidine and (CI) [Nishikawa & Dohi],  
217
- glycopyrrolate**  
and central anticholinergic syndrome (CO) [Grum], 1126  
and central anticholinergic syndrome (CO) [Wingard], 1125
- scopolamine**  
effect of, *versus* ischemia of AV node, in complete heart block  
during anesthesia in coronary artery disease (CR) [Park &  
Lowenstein], 367
- Parathyroid hormone, See under Hormones**
- Patent foramen ovale, See under Heart**
- Patient-controlled analgesia, See under Analgesia**
- Pattern of ventilation, See under Ventilation**
- Pediatric anesthesia, See under Anesthesia**
- Pediatric surgery, See under Surgery**
- Pentobarbital, See under Anesthetics, intravenous; Hypnotics; bar-  
biturates**
- Perforant pathway, See under Brain**
- Pericardial effusion, See under Monitoring**
- Pericardiectomy, See under Surgery**
- Peripheral nerve blood flow, See under Circulation**
- Phantom limb, See under Pain**



**Pharmacodynamics**

**ORG9426**

neuromuscular effects of, in patients receiving balanced anesthesia (CI) [Foldes, Nagashima, Nguyen, Schiller, Mason & Ohta], 191

**pentobarbital**

influence of cryogenic brain injury on (LI) [Archer, Priddy, Tang, Sabourin & Samanani], 634

**protein binding**

**lidocaine**

and drug access to site of action (EV) [Wood], 721

**Pharmacokinetics**

**amrinone**

during cardiac surgery (CI) [Bailey, Levy, Rogers, Szlam & Hug], 961

**distribution**

and closed-circuit anesthesia, computer simulation of (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

and prediction of isoflurane concentrations (CI) [Lerou, Dirksen, Beneken Kolmer, Booi & Borm], 230

**fentanyl**

absorption and bioavailability of (CI) [Streisand, Varvel, Stanski, LeMaire, Ashburn, Hague, Tarver & Stanley], 223

**protein binding**

effect of, on entry of lidocaine into brain and cerebrospinal fluid in dogs (LI) [Marathe, Shen, Artru & Bowdle], 804

**uptake**

and closed-circuit anesthesia, computer simulation of (LR) [Lerou, Dirksen, Beneken Kolmer & Booi], 345

and prediction of isoflurane concentrations (CI) [Lerou, Dirksen, Beneken Kolmer, Booi & Borm], 230

**$\alpha_1$ -acid glycoprotein**

effect of, on entry of lidocaine into brain and cerebrospinal fluid in dogs (LI) [Marathe, Shen, Artru & Bowdle], 804

**Pharmacology**

**adenosine**

in study of spinal pharmacology of hyperesthesia (LI) [Yamamoto & Yaksh], 817

and volatile anesthetics and coronary flow reserve (LI) [Larach & Schuler], 268

**amrinone**

inotropic effect of (CO) [Stowe], 380

during cardiac surgery (CI) [Bailey, Levy, Rogers, Szlam & Hug], 961

inotropic effect of (CO) [Lee & Virtusio], 380

**angiotensin II**

does magnesium sulfate alter maternal cardiovascular response to? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010

**antipsychotic medication**

and spastic torticollis during general anesthesia (CR) [Stemp & Taswell], 365

**calcium antagonists**

**nifedipine**

effects of, on skeletal muscle from patients susceptible to malignant hyperthermia (CI) [Adnet, Krivosic-Florber, Adamantidis, Reyford, Cordonnier & Haudecoeur], 415

**verapamil**

effects of, on skeletal muscle from patients susceptible to malignant hyperthermia (CI) [Adnet, Krivosic-Florber, Adamantidis, Reyford, Cordonnier & Haudecoeur], 415

**calcium-channel blocking drugs**

**D600**

binding to bovine heart sarcolemma, halothane depresses (LI) [Hoehner, Quigg & Blanck], 1019

**gallopamil**

binding to bovine heart sarcolemma, halothane depresses (LI) [Hoehner, Quigg & Blanck], 1019

**cesium**

in study of effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClernan], 866

**clonidine**

intravenous, postoperative analgesia by (CI) [Bernard, Hommeril, Passuti & Pinaud], 577

**cyclosporines**

and effect of dopamine on renal function in liver transplantation (CI) [Swygert, Roberts, Valek, Brajtford, Brown, Gunning, Paulsen & Ramsay], 571

**dexmedetomidine**

antiarrhythmic effect of, on epinephrine-induced arrhythmias (CO) [Eisenach], 1116

antiarrhythmic effect of, on epinephrine-induced arrhythmias (CO) [Hayashi, Sumikawa, & Maze], 1116

**endothelium-derived relaxing factor**

**nitric acid**

inhaled, prevents heparin-protamine vasoconstriction (LI) [Fratacci, Frostell, Chen, Wain, Robinson & Zapol], 990

**nitric oxide**

and endogenous nitrovasodilator and new cellular messenger (EV) [Johns], 927

**indomethacin**

in study of posthypoperfusion pulmonary vasoregulation (LI) [Fehr, Nyhan, Chen & Murray], 257

**NMDA**

and isoflurane and dexmedetomidine in spinal cord (LI) [Savola, Woodley, Maze & Kendig], 489

**ouabain**

in study of effects of halothane on ventricular tachycardia in intact dogs (LI) [Gallagher & McClernan], 866

**phenol**

for motor point blocks in children (CR) [Morrison, Matthews, Washington, Fennessey & Harrison], 359

**tocolytic agents**

does magnesium sulfate alter maternal cardiovascular response to? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010

**Pharyngeal spasm, See under Complications**

**Phenol, See under Pharmacology**

**Phenylephrine, See under Sympathetic nervous system; Sympathetic nervous system,  $\alpha_1$ -adrenergic agonists; Sympathetic nervous system, catecholamines**

**Phlethysmography, See under Measurement techniques**

**Pia mater, See under Spinal cord**

**Plasma, See under Blood**

**Plasticity, See under Nerve(s)**

**Platelet activation, See under Blood; Blood, coagulation**

**Platelet adhesion, See under Measurement techniques**

**Platelet aggregation, See under Blood; Blood, coagulation**

**Platelet function, See under Blood**

**Platelet glycoproteins, See under Blood; Blood, coagulation**

**Pneumography, See under Measurement techniques**

**Pneumonia, See under Lung(s)**

**Pneumothorax, See under Complications**

**Polypeptides****arginine-rich basic polypeptides**

and action of protamine on vascular tissues (LI) [Akata, Yoshitake, Nakashima & Itoh], 833

**Position****lithotomy**

prolonged, epidural opioid analgesia does not obscure diagnosis of compartment syndrome resulting from (CR) [Montgomery & Ready], 541

**prone**

quadraplegia in patient with cervical spondylosis after thoracolumbar surgery in (CR) [Deem, Shapiro & Marshall], 527

**Positive end-expiratory pressure, *See under* Ventilation****Postoperative analgesia, *See under* Analgesia****Postoperative pain, *See under* Pain****Potassium, *See under* Ions****Potassium channel blockade, *See under* Nerve(s)****Potency****analgesic****tolerance**

acute, to opioids, is not related to their potency (LI) [Kissin, Brown & Bradley], 813

**anesthetic****age factors**

and contribution of nitrous oxide to isoflurane MAC in children (CI) [Murray, Mehta & Forbes], 186

and induction dose of propofol in infants and children (CO) [Borgeat, Wilder-Smith & Tassonyi], 550

and induction dose of propofol in infants and children (CO) [Westrin], 550

**MAC**

of desflurane in infants and children (CI) [Taylor & Lerman], 975

isoflurane in children, contribution of nitrous oxide to (CI) [Murray, Mehta & Forbes], 186

**Prazosin, *See under* Sympathetic nervous system,  $\alpha_1$  adrenergic antagonists****Pregnancy****preterm labor**

magnesium sulfate and vasopressors (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010

**Premedication****D-medetomidine**

hemodynamic actions of (LI) [Schmeling, Kampine, Roerig & Warltier], 499

**Preoperative care****preoperative evaluation**

of coagulation disorders, value of activated partial thromboplastin time for (CO) [Janvier, Winnock & Freyburger], 920

**Preoperative evaluation, *See under* Anesthesia; Preoperative care****Preoperative testing, *See under* Testing****Preservatives****methylparaben**

does not increase intracranial pressure in cats (LI) [Pompy, Karlin, Capuano, Cottrell & Hartung], 669

**propylparaben**

does not increase intracranial pressure in cats (LI) [Pompy, Karlin, Capuano, Cottrell & Hartung], 669

**Pressure work index, *See under* Heart****Pressure-flow plots, *See under* Monitoring****Pressure-rate quotient, *See under* Heart, ischemia****Preterm labor, *See under* Pregnancy****Prone position, *See under* Position****Propofol, *See under* Anesthetics, intravenous****Propylparaben, *See under* Preservatives****Prostaglandins, *See under* Hormones****Protamine, *See under* Blood, coagulation****Protein binding, *See under* Pharmacokinetics; Protein(s)****Protein(s)****protein binding**

of ropivacaine, by pregnant ewes (LI) [Santos, Arthur, Pedersen, Morishima, Finster & Covino], 137

**ryanodine receptor**

and susceptibility to malignant hyperthermia, caffeine halothane muscle contracture test of (CI) [MacKenzie, Allen, Lahey, Crossan, Nolan, Mettler, Worton, MacLennan & Korneluk], 4

**Publishing, *See under* Journals****Pulmonary blood flow monitoring, *See under* Monitoring****Pulmonary capillary pressure, *See under* Lung(s)****Pulmonary circulation, *See under* Circulation; Lung(s)****Pulmonary compliance, *See under* Lung(s)****Pulmonary contusion, *See under* Complications****Pulmonary disease, obstructive, *See under* Lung(s)****Pulmonary edema, *See under* Lung(s)****Pulmonary hypertension, *See under* Complications; Lung(s)****Pulmonary vascular resistance, *See under* Lung(s)****Pulse oximetry, *See under* Measurement techniques; Monitoring****Pupillary reflexes, *See under* Reflexes****Purkinje fibers, *See under* Heart****Q****Quadraparesis, *See under* Complications****R****Radioimmunoassay, *See under* Measurement techniques****Rate pressure product, *See under* Heart****Read rebreathing method, *See under* Measurement techniques****Recall, *See under* Anesthesia, depth****Receptor gene measurement techniques, *See under* Measurement techniques****Receptors****adrenergic** **$\alpha_1$** 

antagonizes  $\alpha_2$  (LI) [Guo, Tinklenberg, Olikier & Maze], 252

 **$\alpha_2$** 

is antagonized by  $\alpha_1$  (LI) [Guo, Tinklenberg, Olikier & Maze], 252

 **$\alpha$ -adrenergic**

and spinal pharmacology of hyperesthesia (LI) [Yamamoto & Yaksh], 817

 **$\alpha_2$ -adrenergic receptors**

stimulation of, dexmedetomidine prevents epinephrine-induced arrhythmias through (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113

 **$\alpha_2$  agonists**

effects of, on systemic and coronary hemodynamics in conscious dogs (LI) [Schmeling, Kampine, Roerig & Warltier], 499

**benzodiazepines****GABA**

transmission by, in rat brain, propofol and (LI) [Peduto, Concas, Santoro, Biggio & Gessa], 1000

- GABA-B**  
and spinal pharmacology of hyperesthesia (LI) [Yamamoto & Yaksh], 817
- glutamate**  
and ischemic brain damage (LI) [Nellgård, Gustafson & Wieloch], 279
- opioid**  
and spinal pharmacology of hyperesthesia (LI) [Yamamoto & Yaksh], 817
- up-regulation**  
and onset of disuse-related potassium efflux to succinylcholine (LI) [Fung, White, Jones & Gronert], 650
- Records**  
**anesthesia**  
data processing, automatic for minimal-flow system for xenon anesthesia (LR) [Luttrupp, Rydgren, Thomasson & Werner], 896  
**medical**  
automation  
versus personal interview (CI) [Lutner, Roizen, Stocking, Thisted, Kim, Duke, Pompei & Cassel], 394
- Reflexes**  
**baroreceptor**  
halothane depression of, in growing piglets (LI) [Palmisano, Clifford, Hoffmann, Seagard, Coon & Kampine], 512
- clonus**  
evaluation of, in response to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594
- deep tendon**  
evaluation of, in response to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594
- nasal**  
and nasal insufflation of volatile anesthetics in anesthetized humans (CI) [Nishino, Tanaka, Ishikawa & Hiraga], 441
- pupil**  
light, isoflurane, but not mild hypothermia, depresses (CI) [Larson, Sessler, McGuire & Hynson], 62
- spasticity**  
evaluation of, in response to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594
- spinal**  
abnormal  
evaluation of, in response to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594
- swallowing**  
effects of partial paralysis on, in conscious humans (CI) [Isono, Ide, Kochi, Mizuguchi & Nishino], 980
- Regional anesthesia, See under Anesthesia**
- Relaxants, See under Neuromuscular relaxants**
- Reports of Scientific Meetings, See under Organizations**
- Research**  
"operator syndrome"  
ethics in publication and (CO) [Knill], 545  
ethics in publication and (CO) [Smith, Miller, Saidman & Morgan], 545
- Respiratory complications, See under Complications**
- Respiratory depression, See under Complications**
- Respiratory failure, See under Lung(s)**
- Ropivacaine, See under Anesthetics, local**

S

- Sarcolemma, See under Muscle, cardiac**
- Sarcoplasmic reticulum, See under Heart**
- Scopolamine, See under Parasympathetic nervous system**
- Sensitization, See under Nerve(s)**
- Serotonin, See under Brain, neurotransmitters**
- 5-hydroxytryptamine**  
in study of bronchodilation and airway epithelium (LI) [Sayiner, Lorenz, Warner & Rehder], 75
- Sevoflurane, See under Anesthetics, volatile**
- Shivering, See under Temperature, thermoregulation**
- Shock**  
**hemorrhagic**  
resuscitation from, with hypertonic saline, cerebral blood flow following (LI) [Prough, Whitley, Taylor, Deal & DeWitt], 319  
**hypertonic saline**  
regional cerebral blood flow following resuscitation from hemorrhagic shock with (LI) [Prough, Whitley, Taylor, Deal & DeWitt], 319
- Sinus bradycardia, See under Complications**
- Sinus node, See under Heart**
- Skin**  
**blood flow**  
hyperventilation reduces (CI) [Barker, Hyatt, Clarke & Tremper], 619  
**temperature**  
measurement of, in evaluation of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594
- Skin temperature, See under Temperature**
- Sleep**  
and isoflurane and circadian cycles (CI) [Sessler, Lee & McGuire], 985
- Smooth muscle, See under Muscle**
- Sodium, See under Ions**
- Somatosensory evoked potentials, See under Monitoring**
- Sonomicrometry, See under Measurement techniques**
- Spasms, See under Complications**
- Spasticity, See under Reflexes**
- Spinal anesthesia, See under Anesthetic techniques**
- Spinal cord**  
**arachnoid mater**  
and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827  
**dura mater**  
and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827  
**meninges**  
and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827  
**permeability**  
and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827  
**pia mater**  
and spinal nerve root sleeve permeability (LI) [Bernards & Hill], 827  
**spinal nerve root sleeve**  
permeability (LI) [Bernards & Hill], 827  
**subarachnoid space**  
and ketamine and midazolam neurotoxicity in rabbit (LI) [Malinovsky, Cozian, Lepage, Mussini, Pinaud & Souron], 91

## substance P

and isoflurane and dexmedetomidine (LI) [Savola, Woodley, Maze & Kendig], 489

injury to, prior to neurectomy alters pattern of autonomy in rats (LI) [Katz, Vaccarino, Coderrec & Melzack], 876

Spinal nerve root sleeve, *See under* Spinal cord

Spinal permeability, *See under* Spinal cord

Spinal reflexes, *See under* Reflexes

Spinal surgery, *See under* Surgery

Spine, *See under* Anatomy

complications of, *See under* Complications

Splanchnic nerve activity, *See under* Gastrointestinal tract

Spontaneous breathing, *See under* Ventilation

Spontaneous ventilation, *See under* Ventilation

Sprotte needle, *See under* Equipment, needle(s)

ST-91, *See under* Sympathetic nervous system

Strabismus, *See under* Surgery

Streptozocin, *See under* Metabolism

ST-segment elevation, *See under* Monitoring, electrocardiography

Stump pressure, *See under* Monitoring

Stylets, *See under* Equipment

Subarachnoid space, *See under* Spinal cord

Subdural mass, *See under* Brain

Substance P, *See under* Spinal cord

Succinylcholine, *See under* Neuromuscular relaxants

Sudden asystole, *See under* Complications

Sufentanil, *See under* Analgesics, opioid

## Surgery

## abdominal aortic

combined epidural and general *versus* general anesthesia for (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

## cardiac

## aortic dissection

during cardiac surgery, transesophageal echocardiographic diagnosis of (CR) [Troianos, Savino & Weiss], 149

## cardiopulmonary bypass

air entrainment during (CO) [Brot-st-Lane], 1120

air entrainment during (CO) [Quinn], 1120

aprotinin for, mechanism of action of (CO) [Allison & Whitten], 377

aprotinin for, mechanism of action of (CO) [Dietrich, Richter, Schramm & Spannagl], 378

aprotinin for, mechanism of action of (CO) [Merle, Lançon, Dutrillaux, Obadia & Caillard], 379

blood gas management during (LI) [Hindman, Funatsu, Harrington, Cutkomp, Dexter, Todd & Tinker], 662

and cerebral blood flow response to carbon dioxide during hypothermic bypass (LI) [Hindman, Funatsu, Harrington, Cutkomp, Dexter, Todd & Tinker], 662

little risk of hyperosmolar coma following hyperglycemia during (CO) [Alberti], 913

little risk of hyperosmolar coma following hyperglycemia during (CO) [Hirsch & White], 912

little risk of hyperosmolar coma following hyperglycemia during (CO) [Metz], 912

normal parathyroid hormone responses to hypocalcemia during (CI) [Robertie, Butterworth, Royster, Preilipp, Dudas, Black, Cole & Zaloga], 43

in patient with factor XII deficiency (CR) [Salmenperä, Rasi & Mattila], 539

pharmacokinetics of amrinone during (CI) [Bailey, Levy, Rogers, Szlam & Hug], 961

platelet activation and aggregation during (CI) [Rinder, Bohner, Rinder, Mitchell, Ault & Hillman], 388

platelet adhesion receptor changes during (CI) [Rinder, Mathew, Rinder, Bonan, Ault & Smith], 563

prevention of heparin/protamine complications during (LI) [Yang, Port, Kim, Teng, Till & Wakefield], 288

should calcium be administered prior to separation from (CO) [Butterworth, Royster, Prielipp & Zaloga], 1121

should calcium be administered prior to separation from (CO) [Hosking], 1121

ST-segment elevation during (CR) [Whitten, Latson, Cochran, Elmore & Griffin], 161

## coronary artery bypass graft

assessment of myocardial perfusion during, with two-dimensional transesophageal contrast echocardiography (CI) [Aranson, Lee, Wiencek, Feinstein, Roizen, Karp & Ellis], 433

pressure-rate quotient in patients undergoing (CO) [Buffington], 710

pressure-rate quotient in patients undergoing (CO) [Gordon, Urban, O'Connor & Barash], 711

## vascular

right- and left-arm blood pressure discrepancies in (CI) [Frank, Norris, Christopherson & Beattie], 457

blood conservation techniques and platelet function (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

heart block during anesthesia in: effect of scopolamine *versus* ischemia of AV node (CR) [Park & Lowenstein], 367

## cardiovascular

## extracorporeal circulation

and successful defibrillation with near-simultaneous orthogonal discharges (CR) [Horrow & Pharo], 362

## carotid endarterectomy

monitoring electrophysiologic function during (CI) [Lam, Manninen, Ferguson & Nantau], 15

## complications

high-risk procedures, general *versus* "balanced" general anesthesia for (CI) [Baron, Bertrand, Barré, Godet, Mundler, Coriat & Viars], 611

## laryngeal

## cricothyroidotomy

in management of difficult adult airway (MI) [Benumof], 1087

## laryngoscopy

in management of difficult adult airway (MI) [Benumof], 1087

## pediatric

## preoperative preparation

and prevalence and detection of anemia (CI) [Hackmann, Steward & Sheps], 27

## pericardiectomy

intraoperative echocardiography to evaluate ventricular filling dynamics during (CR) [Hogue, Platin, Barzilai & Kaiser], 701

## spine

in prone position, quadriplegia in patient with cervical spondylosis after (CR) [Deem, Shapiro & Marshall], 527

## strabismus

effect of propofol on postoperative vomiting after (CI) [Watcha, Simeon, White & Stevens], 204

## thyroid

should laryngeal mask be routinely used in patients undergoing? (CO) [Charters, Cave-Bigley & Roysam], 918

- should laryngeal mask be routinely used in patients undergoing?  
(CO) [Tanigawa, Inoue & Iwata], 919
- transplantation**
- hepatic
- effect of dopamine on renal function in (CI) [Swygert, Roberts, Valek, Brajtford, Brown, Gunning, Paulsen & Ramsay], 571
- foreign bodies produced by, risk of tracheal aspiration of (CO) [Hitt & Doblar], 915
- "do-not-resuscitate" orders during (CO) [Daly & Seravalli], 709
- "do-not-resuscitate" orders during (CO) [Truog], 710
- Swallowing reflex, See under Reflexes**
- Swine, See under Animals**
- Sympathetic nervous system**
- adrenergic agonists**
- does magnesium sulfate alter maternal cardiovascular response to? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010
- $\alpha_1$ -adrenergic agonists**
- cirazoline
- effect of, on dexmedetomidine (LI) [Guo, Tinklenberg, Olikier & Maze], 252
- phenylephrine
- effect of, on dexmedetomidine (LI) [Guo, Tinklenberg, Olikier & Maze], 252
- $\alpha_1$ -adrenergic antagonists**
- doxazosin
- blocks cirazoline's attenuating effect on dexmedetomidine-induced hypnosis (LI) [Guo, Tinklenberg, Olikier & Maze], 252
- $\alpha_2$ -adrenergic agonists**
- atipamezole
- and effect of dexmedetomidine on arrhythmias (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113
- clonidine
- epidural, and fentanyl in postoperative patients (CI) [Rostaing, Bonnet, Levron, Voinh, Pluskwa & Saada], 420
- site of hemodynamic effects of (CO) [De Kock], 715
- dexmedetomidine
- and arrhythmias (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113
- effects of, on systemic and coronary hemodynamics in conscious dogs (LI) [Schmeling, Kampine, Roerig & Warltier], 499
- $\alpha_1$  adrenoceptor stimulation antagonizes hypnotic response to (LI) [Guo, Tinklenberg, Olikier & Maze], 252
- improves neurologic outcome from incomplete ischemia in rat (LI) [Hoffman, Kochs, Werner, Thomas & Albrecht], 328
- influence of, on human liver microsomal alfentanil metabolism (LR) [Kharasch, Hill & Eddy], 520
- and heart rate in response to intravenous atropine in humans (CI) [Nishikawa & Dohi], 217
- L-659,066
- and effect of dexmedetomidine on arrhythmias (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113
- influence of, on human liver microsomal alfentanil metabolism (LR) [Kharasch, Hill & Eddy], 520
- $\alpha$ -adrenergic receptor agonists**
- dexmedetomidine
- isoflurane and, in spinal cord (LI) [Savola, Woodley, Maze & Kendig], 489
- $\alpha_2$  agonists**
- clonidine
- intravenous, postoperative analgesia by (CI) [Bernard, Hommeril, Passuti & Pinaud], 577
- $\alpha_2$  antagonists**
- atipamezole
- in study of dexmedetomidine and cerebral ischemia (LI) [Hofman, Kochs, Werner, Thomas & Albrecht], 328
- autonomic blockade**
- effects of, on systemic and coronary hemodynamics in conscious dogs (LI) [Schmeling, Kampine, Roerig & Warltier], 499
- catecholamines**
- epinephrine
- arrhythmia thresholds in dogs anesthetized with thiopental-halothane (LI) [Woehick, Rusy & Altee], 884
- arrhythmias induced by, dexmedetomidine prevents (LI) [Hayashi, Sumikawa, Maze, Yamatodani, Kamibayashi, Kuro & Yoshiya], 113
- arrhythmias induced by, mechanism of antiarrhythmic effect of dexmedetomidine on (CO) [Eisenach], 1116
- arrhythmias induced by, mechanism of antiarrhythmic effect of dexmedetomidine on (CO) [Hayashi & Sumikawa], 1116
- arrhythmias induced by, propofol enhancement of (LI) [Kamibayashi, Hayashi, Sumikawa, Yamatodani, Kawabata & Yoshiya], 1035
- assay for, in study of spinal blockade alteration of splanchnic organ responsiveness (LI) [Jordan & Miller], 654
- dosage effects of, on cardiopulmonary resuscitation blood flow (LI) [Berkowitz, Gervais, Schleen, Koehler, Dean & Traystman], 1041
- levels of, following alfentanil infusion for postoperative pain (CI) [Camu & Debucquoy], 171
- in study of anesthetics and abnormal cardiac electrophysiology (LI) [Laszlo, Polic, Kampine, Turner, Atlee & Bosnjak], 847
- in study of volatile anesthetics and their effect on Purkinje fiber automaticity (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98
- neuroblastoma
- as cause for hemodynamic instability during hepatic tumor resection (CO) [Riegle, Hirshberg & Ternberg], 381
- norepinephrine**
- clearance
- with propofol and halothane (LI) [Deegan, BingHe, Wood & Wood], 481
- levels of, following alfentanil infusion for postoperative pain (CI) [Camu & Debucquoy], 171
- spillover
- with propofol and halothane (LI) [Deegan, BingHe, Wood & Wood], 481
- phenylephrine
- dosage effects of, on cardiopulmonary resuscitation blood flow (LI) [Berkowitz, Gervais, Schleen, Koehler, Dean & Traystman], 1041
- does magnesium sulfate alter maternal cardiovascular response to? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010
- in study of volatile anesthetics and their effect on Purkinje fiber automaticity (LI) [Laszlo, Polic, Atlee, Kampine & Bosnjak], 98
- clonidine**
- and heart rate in response to intravenous atropine in humans (CI) [Nishikawa & Dohi], 217



**D-medetomidine**

hemodynamic actions of (LI) [Schmeling, Kampine, Roerig & Wartier], 499

**dopamine**

intraoperative low-dose, effect of, on renal function in liver transplant recipients (CI) [Swygert, Roberts, Valek, Brajtford, Brown, Gunning, Paulsen & Ramsay], 571

**dopamine receptors**

and spastic torticollis during general anesthesia (CR) [Stemp & Taswell], 365

**L-medetomidine**

effects of, on systemic and coronary hemodynamics in conscious dogs (LI) [Schmeling, Kampine, Roerig & Wartier], 499

**ST-91**

does magnesium sulfate alter maternal cardiovascular response to? (LI) [Sipes, Chestnut, Vincent, Weiner, Thompson & Chatterjee], 1010

**sympatholytic agents****amiodarone**

electrophysiologic effects of, on canine Purkinje fibers (LI) [Gallagher], 106

## T

**Temperature****brain, See under Brain****hypothermia**

during cardiopulmonary bypass, cerebral blood flow response to (LI) [Hindman, Funatsu, Harrington, Cutkomp, Dexter, Todd & Tinker], 662

**measurement****skin**

in evaluation of physiologic responses to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

**regulation**

and central thermoregulatory inhibition by general anesthesia (EV) [Sessler], 557

in preoptic region of anterior hypothalamus, effect of halothane on (LI) [Poterack, Kampine & Schmeling], 625

**thermoregulation****shivering**

in response to mild perianesthetic hypothermia in humans (CI) [Sessler, Rubinstein & Moayeri], 594

circadian temperature cycles in humans, isoflurane anesthesia and (CI) [Sessler, Lee & McGuire], 985

**Tension time index, See under Heart****Testing****preoperative**

automated interview in, *versus* personal interview (CI) [Lutner, Roizen, Stocking, Thisted, Kim, Duke, Pompei & Cassel], 394

**Tetanus, See under Infection****Tetracaine, See under Anesthetics, local****Tetraethylammonium, See under Nerve(s), potassium channel blockade****Tetralogy of Fallot, See under Complications****Tetrodotoxin, See under Ions, calcium blockers****Thermodilution, See under Measurement techniques****Thermoregulation, See under Temperature****Thiamylal, See under Anesthetics, intravenous****Thiopental, See under Anesthetics, intravenous****Thoracic anesthesia, See under Anesthesia****Thromboplastin time**

activated partial, *See under* Measurement techniques

**Thromboxane, See under Hormones, prostaglandins; Metabolism****Thromboxane A<sub>2</sub>, See under Hormones****Thyroid surgery, See under Surgery****Tocolytic agents, See under Pharmacology****Tolerance, See under Potency, analgesic****Tonometry, See under Blood pressure; Measurement techniques****Torticollis, See under Complications****Toxicity****cardiac**

cocaine-induced, treatment of (CO) [Nahas], 544

**neurotoxicity**

and blockade by n-butyl-p-aminobenzoate in intractable cancer pain (CI) [Korsten, Ackerman, Grouls, van Zundert, Bon, Bal, Crommelin, Ribot, Hoefsloot & Sloff], 950  
produced by ketamine and midazolam in rabbit (LI) [Malinovsky, Cozian, Lepage, Mussini, Pinaud & Souron], 91

**Tracheal extubation, See under Airway; Complications****Tracheal intubation, See under Anesthetic techniques; Intubation****Tracheal stenosis, See under Airway****Tracheostomy, See under Ventilation, artificial****Transesophageal echocardiography, See under Monitoring****Transfusion****cell saver**

and platelet function in cardiac surgery (CI) [Boldt, Zickmann, Czeke, Herold, Dapper & Hempelmann], 426

**Transmucosal anesthesia, See under Anesthetic techniques****Transplantation, See under Surgery**

lung, *See under* Lung(s)

**Tryptase, See under Immune response, anaphylactoid****Tuohy-Borst adapter, See under Equipment****Tympanic membrane, See under Ear**

## U

**U46619, See under Metabolism****Ultrasonography, See under Measurement techniques****Univent® tube, See under Equipment****Urologic anesthesia, See under Anesthesia**

## V

**Vascular pressures, See under Heart****Vascular resistance, See under Lung(s)****Vascular smooth muscle, See under Muscle****Vasoconstriction, See under Blood vessels****Vasopressin, See under Hormones, antidiuretic****Vecuronium, See under Neuromuscular relaxants****Venoconstriction, See under Lung(s)****Venous admixture, See under Lung(s)****Ventilation****airway pressure**

after three sufentanil-pancuronium induction sequences (CI) [Horrow, Abrams, Van Riper, Lambson & Storella], 969

**apnea**

and epidural nalbuphine or morphine after thoracotomy (CI) [Etches, Sandler & Lawson], 9

**artificial****tracheostomy**

in management of difficult adult airway (MI) [Benumof], 1087

- breathing**
  - spontaneous
    - mechanisms of diaphragm displacement during (CO) [Sprung & Rodarte], 916
- breathing pattern**
  - and volatile anesthetics in anesthetized humans (CI) [Nishino, Tanaka, Ishikawa & Hiraga], 441
- controlled**
  - intraoperative, right-to-left intracardiac shunt induced by (CR) [Jaffe, Pinto, Schnittger & Brock-Utne], 153
- inspiratory pressure support**
  - and ventilation-perfusion ratios in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730
- manual**
  - of lungs of infants, pediatric anesthesiologist and (EV) [Steward], 555
- mechanical**
  - pressure support
    - and work of breathing caused by endotracheal tube (CI) [Brochard, Rua, Lorino, LeMaire & Harf], 739
    - intraoperative, right-to-left intracardiac shunt induced by (CR) [Jaffe, Pinto, Schnittger & Brock-Utne], 153
    - and ventilation-perfusion ratios in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730
- neonate**
  - and anesthesiologists assessment of changes in neonatal pulmonary compliance by "educated hand" (LR) [Spears, Yeh, Fisher & Zwass], 693
- one lung, See under Anesthetic techniques**
- pattern**
  - and epidural nalbuphine or morphine after thoracotomy (CI) [Etches, Sandler & Lawson], 9
- positive end-expiratory pressure**
  - intraoperative, right-to-left intracardiac shunt induced by (CR) [Jaffe, Pinto, Schnittger & Brock-Utne], 153
- spontaneous**
  - via transtracheal large-bore intravenous catheters is possible (CR) [Dallen, Wine & Benumof], 531
- spontaneous breathing**
  - and ventilation-perfusion ratios in obstructive pulmonary disease (CI) [Beydon, Cinotti, Rekik, Radermacher, Adnot, Meignan, Harf & Lemaire], 730
- Ventilation-perfusion ratios, See under Lung(s)**
- Ventilation-perfusion relationships, See under Lung(s)**
- Ventilatory response, See under Carbon dioxide**
- Ventricular tachycardia, See under Heart**
- Verapamil, See under Pharmacology, calcium antagonists**
- Vitamins**
  - calcitriol
    - in response to hypocalcemia during cardiopulmonary bypass (CI) [Robertie, Butterworth, Royster, Preilipp, Dudas, Black, Cole & Zaloga], 43
- Vomiting, See under Complications**

W

Wall motion abnormality, *See under Heart*

X

Xenon, *See under Anesthetics, gases*

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Act of August 12, 1970: Section 3685, Title 39 United States Code) Date of Filing—October 1, 1991, Title of Publication—Anesthesiology; Frequency of Issue—Monthly; Annual Subscription Price—\$105.00; Location of Known Office of Publication—100 Insurance Way, Suite 114, Hagerstown, MD 21740; Location of the Headquarters or General Business Offices of the Publisher—J. B. Lippincott Company, 227 East Washington Square, Philadelphia, PA 19106; Publisher—American Society of Anesthesiologists, Inc., 515 Busse Highway, Park Ridge, IL 60068; Editor—Lawrence J. Saidman, M.D., Anesthesiology, 0815, University of California—San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0815; Managing Editor—Lynda Krumpolz, 227 East Washington Square, Philadelphia, PA 19106; Owner—American Society of Anesthesiologists, Inc., 515 Busse Highway, Park Ridge, IL 60068; Known Bondholders, Mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities—None. A. Total no. copies printed (*net press run*), average 39,523, actual 38,000; B. Paid circulation 1. Sales through dealers and carriers, street vendors and counter sales, average none, actual none; 2. Mail subscriptions, average 36,337, actual 36,360; C. Total paid circulation, average 36,337, actual 36,360; D. Free distribution by mail, carrier or other means. Samples, complimentary, and other free copies, average 570, actual 427. E. Total distribution (*sum of C and D*), average 36,907, actual 35,787; F. Copies not distributed 1. Office use, leftover, unaccounted, spoiled after printing, average 2,616, actual 2,213. 2. Returns from news agents, none; G. Total (*sum of E & F—should equal net press runs shown in A*), average 39,523, actual 38,000. I certify that the statements made by me above are correct and complete. J. Lippincott, Publisher.

# AUTHOR INDEX TO VOLUME 75

## A

- Abouleish, Ezzat: Intrathecal Morphine as a Cause for Herpes Simplex Should be Scratched Out, 919
- Abouleish, Ezzat, *see* Rawal, Narinder
- Abrams, Jonathan T., *see* Horrow, Jan C.
- Ackerman, E. W., *see* Korsten, H. H. M.
- Adamantidis, Monique M., *see* Adnet, Pascal J.
- Adnet, Pascal J., Krivosic-Horber, Renée M., Adamantidis, Monique M., Reyford, Hugo, Cordonnier, Corinne, Haudecoeur, Ghislain: Effects of Calcium-free Solution, Calcium Antagonists, and the Calcium Agonist BAY K 8644 on Mechanical Responses of Skeletal Muscle from Patients Susceptible to Malignant Hyperthermia, 413
- Adnot, Serge, *see* Beydon, Laurent
- Agustí, Alvar G. N., *see* Gea, Joaquim
- Akata, Takashi, Yoshitake, Jun-ichi, Nakashima, Mikio, Itoh, Takeo: Effects of Protamine on Vascular Smooth Muscle of Rabbit Mesenteric Artery, 833
- Alberti, K. G. M. M.: Reply, 913
- Albertson, T. E., Tseng, C.-C., Joy, R. M.: Propofol Modification of Evoked Hippocampal Dentate Inhibition in Urethane-anesthetized Rats, 82
- Albrecht, Ronald F., *see* Hoffman, William E.
- Ali, M. A., *see* Block, Robert I.
- Allen, Gregory, *see* MacKenzie, Alex E.
- Allison, Paul M., Whitten, Charles W.: What Is the Mechanism of Action of Aprotinin?, 377
- Andreev, Alexandre, *see* Rouby, Jean-Jacques
- Appleton, F. M., *see* Dodds, T. M.
- Archer, David P., Priddy, Richard E., Tang, Timothy K. K., Sabourin, Mary Anne, Samanani, Naaznin: The Influence of Cryogenic Brain Injury on the Pharmacodynamics of Pentobarbital: Evidence for a Serotonergic Mechanism, 634
- Aronson, Solomon, Lee, Bryan K., Wiencek, Jeff G., Feinstein, Steven B., Roizen, Michael F., Karp, Robert B., Ellis, John E.: Assessment of Myocardial Perfusion during CABG Surgery with Two-dimensional Transesophageal Contrast Echocardiography, 433
- Arthaud, Martine, *see* Rouby, Jean-Jacques
- Arthur, G. R., *see* Santos, A. C.
- Artru, Alan A., *see* Marathe, Punit H.
- Asai, Takashi, Fujise, Kumiko, Uchida, Morio: Use of the Laryngeal Mask in a Child with Tracheal Stenosis, 903
- Ashburn, Michael A., *see* Streisand, James B.
- Atkins, Robert F.: Truth in Advertising: The Journal's Responsibility, 547
- Atlee, John L., III, *see* Laszlo, Adam; *also see* Polic, Stojan; Woehlick, Harvey J.

- Aukburg, Stanley, *see* Savino, Joseph S.
- Ault, Kenneth, *see* Rinder, Christine S.
- Ault, Kenneth A., *see* Rinder, Christine S.

## B

- Baele, Philippe L., Rennotte, Marie-Thérèse E., Veyckemans, Francis A.: External Compression of the Abdominal Aorta Reversing Tetralogy of Fallot Cyanotic Crisis, 146
- Bailey, James M., Levy, Jerrold H., Rogers, H. Gary, Szlam, Fania, Hug, Carl C., Jr.: Pharmacokinetics of Amrinone during Cardiac Surgery, 961
- Baldo, Brian A., *see* Fisher, Malcolm M.
- Bal, F., *see* Korsten, H. H. M.
- Barash, Paul G., *see* Gordon, Michael A.
- Barker, Steven J., Hyatt, John, Clarke, Christopher, Tremper, Kevin K.: Hyperventilation Reduces Transcutaneous Oxygen Tension and Skin Blood Flow, 619
- Barker, Steven J., *see* Lee, Steven
- Baronia, A. K., Singh, P. K., Dhiman, R. K.: Intractable Pharyngeal Spasm Following Tracheal Extubation in a Patient with Undiagnosed Tetanus, 1111
- Baron, Jean-François, Bertrand, Michèle, Barré, Eric, Godet, Gilles, Mundler, Olivier, Coriat, Pierre, Viars, Pierre: Combined Epidural and General Anesthesia versus General Anesthesia for Abdominal Aortic Surgery, 611
- Barré, Eric, *see* Baron, Jean-François
- Bartkowski, Richard R., *see* Epstein, Richard H.
- Barzilai, Benico; *see* Hogue, Charles W., Jr.; *also see* Pulley, Debra D.
- Bashein, G., Syrovoy, George: Burns Associated with Pulse Oximetry during Magnetic Resonance Imaging, 382
- Baysinger, Curtis L., *see* Ducey, Joseph P.
- Beattie, Charles, *see* Frank, Steven M.
- Bennie, Jeffrey B., *see* Gunter, Joel B.
- Benson, Gail V., *see* Wakerlin, George E., Jr.
- Benumof, Jonathan L.: Additional Safety Measures When Changing Endotracheal Tubes, 921
- Benumof, Jonathan L.: Management of the Difficult Adult Airway: With Special Emphasis on Awake Tracheal Intubation, 1087
- Benumof, Jonathan L., *see* Dallen, Larry T.
- Berkowitz, Ivor D., Gervais, Hendrik, Schleien, Charles L., Koehler, Raymond C., Dean, J. Michael, Traystman, Richard J.: Epinephrine Dosage Effects on Cerebral and Myocardial Blood Flow in an Infant Swine Model of Cardiopulmonary Resuscitation, 1041
- Bernard, Jean-Marc, Hommeril, Jean-Luc, Passuti, Norbert, Pinaud, Michel: Postoperative Analgesia by Intravenous Clonidine, 577
- Bernards, Christopher M., Hill, Harlan F.: The Spinal Nerve Root Sleeve Is Not a Preferred Route for Redistribution of Drugs from the Epidural Space to the Spinal Cord, 827
- Bertrand, Michèle, *see* Baron, Jean-François
- Beydon, Laurent, Cinotti, Luc, Rekik, Noureddine, Radermacher, Peter, Adnot, Serge, Meignan, Michel, Harf, Alain, Lemaire, François: Changes in the Distribution of Ventilation and Perfusion Associated with Separation from Mechanical Ventilation in Patients with Obstructive Pulmonary Disease, 730
- Biggio, G., *see* Peduto, V. A.
- Black, Kimberly Ward, *see* Robertie, Paul G.
- Blackshear, Robert H., *see* Gravenstein, Nikolaus
- Blackstock, D., *see* Pounder, D. R.
- Blanck, Thomas J. J., *see* Hoehner, Paul J.
- Block, Robert I., Ghoneim, M. M., Ping, S. T. Sum, Ali, M. A.: Efficacy of Therapeutic Suggestions for Improved Postoperative Recovery Presented during General Anesthesia, 746
- Blouin, Robert T., Conard, Pattilyn F., Gross, Jeffrey B.: Time Course of Ventilatory Depression Following Induction Doses of Propofol and Thiopental, 940
- Boezeman, Eduard H., *see* Kalkman, Cor J.
- Bohnert, John, *see* Rinder, Christine S.
- Boldt, Joachim, Zickmann, Bernfried, Czeke, Almos, Herold, Christoph, Dapper, Friedhelm, Hempelmann, Gunter: Blood Conservation Techniques and Platelet Function in Cardiac Surgery, 426
- Bonan, Jayne, *see* Rinder, Christine S.
- Bonnet, Francis, *see* Rostaing, Sylvie
- Booij, Leo H. D. J., *see* Lerou, Jos G. C.
- Boon, W. F., *see* Korsten, H. H. M.
- Borgeat, Alain, Wilder-Smith, Oliver, Tassonyi, Edomer: Induction Dose of Propofol in Infants and Children, 550
- Borm, George F., *see* Lerou, Jos G. C.
- Bortolussi, Mario E., Hunter, John G., Handal, Arthur G.: Forearm Compartment Syndrome after Diazepam Administration, 159
- Bosnjak, Zeljko J., *see* Laszlo, Adam; *also see* Polic, Stojan; Sprung, Juraj; Stowe, David F.
- Bovill, James G., *see* Kalkman, Cor J.
- Bowdle, T. Andrew, *see* Marathe, Punit H.
- Bowering, John B., *see* Thomson, Ian R.
- Bower, Richard J., *see* Gunter, Joel B.
- Boyd, Gwendolyn, *see* Kelly, James B., Jr.
- Bradley, Edwin L., Jr., *see* Kissin, Igor
- Brajtford, Dan, *see* Swygert, Thomas H.
- Bricard, Henri, *see* Laroche, Dominique
- Brobst-Lane, Eileen: Reply, 1120

Brochard, Laurent, Rua, Fernando, Lorino, Hubert, Lemaire, François, Harf, Alain: Inspiratory Pressure Support Compensates for the Additional Work of Breathing Caused by the Endotracheal Tube, 739  
Brock-Utne, John G., *see* Jaffe, Richard A.  
Brown, Marc R., *see* Swygert, Thomas H.  
Brown, Mary P., *see* Palmisano, Barbara W.  
Brown, Pamela T., *see* Kissin, Igor  
Buffington, Charles W.: No Coronary Dilation: No Coronary Steal, 376  
Buffington, Charles W.: Pressure-Rate Quotient in Patients Undergoing Coronary Artery Bypass Graft Surgery, 710  
Buffington, Charles W., Coyle, Richard J.: Altered Load Dependence of Postischemic Myocardium, 464  
Busoni, Paolo, Messeri, Andrea: Spinal Anesthesia in Infants: Could a L5-S1 Approach Be Safer?, 168  
Butterworth, John F., IV, Royster, Roger L., Prielpilz, Richard C., Zaloga, Gary P.: Reply, 1121  
Butterworth, John F., IV, *see* Robertie, Paul G.

# C

Caillard, B., *see* Merle, Jean-Pierre  
Camu, Frederic, Debucquoy, Filip: Alfentanil Infusion for Postoperative Pain: A Comparison of Epidural and Intravenous Routes, 171  
Caplan, Robert A., *see* Cheney, Frederick W.  
Capuano, Christine M., *see* Pompy, Lesley  
Cardinet, George H., III, *see* Jaffe, Rory S.  
Casella, Eugene S., *Intraoperative Use of Echocardiography*, edited by Norbert P. deBruijin and Fiona M. Clements, 925  
Cassel, Christine K., *see* Lutner, Rachel E.  
Cave-Bigley, D., *see* Charters, P.  
Charters, P., Cave-Bigley, D., Roysam, Chandrika S.: Should a Laryngeal Mask Be Routinely Used in Patients Undergoing Thyroid Surgery?, 918  
Chatterjee, Papri, *see* Sipes, Susan L.  
Chen, Bessie B., *see* Fehr, David M.  
Cheney, Frederick W., Posner, Karen L., Caplan, Robert A.: Adverse Respiratory Events Infrequently Lead to Malpractice Suits: A Closed Claims Analysis, 932  
Cheng, Eugene Y., *see* Sprung, Juraj  
Chen, Tong-Yen, *see* Fratacci, Marie-Dominique  
Chestnut, David H., *see* Sipes, Susan L.  
Cheung, Albert T., Weiss, Stuart J., Savino, Joseph S.: Protamine-induced Right-to-left Intracardiac Shunting, 904  
Chou, Yuan-Hwa, Wei, Jeng, Lin, Cheng-I: Halothane Inhibits Residual Fast Sodium Channels in Human Atrial Muscle, 716  
Christopherson, Rose, *see* Frank, Steven M.  
Cinotti, Luc, *see* Beydon, Laurent  
Clarke, Christopher, *see* Barker, Steven J.

Clements, Fiona M., *see* DeBruijin, Norbert P.  
Clifford, Philip S., *see* Palmisano, Barbara W.  
Cochran, Richard P., *see* Whitten, Charles W.  
Coderre, Terence J., *see* Katz, Joel  
Cohen, Robert I., *see* Stevens, Donald S.  
Cohen, Shaul, Whalen, Francis: Another Potential Complication of a Pulmonary Artery Catheter Insertion, 714  
Cohen, Sheila E., *see* Loftus, John R.  
Cole, Lisa R., *see* Robertie, Paul G.  
Conard, Pattilyn, *see* Gross, Jeffrey B.  
Conard, Pattilyn F., *see* Blouin, Robert T.  
Concas, A., *see* Peduto, V. A.  
Connell, G. Raymond, *see* Mangar, Devanand  
Connelly, Michael, Warfield, Carol A.: Reply, 914  
Coon, Robert L., *see* Palmisano, Barbara W.  
Cooper, Michael G., Sethna, Navil F.: Epidural Analgesia in Patients with Congenital Lumbosacral Spinal Anomalies, 370  
Cordonnier, Corinne, *see* Adnet, Pascal J.  
Coriat, Pierre, *see* Baron, Jean-François  
Cottrell, James E., *see* Pompy, Lesley  
Covino, B. G., *see* Santos, A. C.  
Coyle, Richard J., *see* Buffington, Charles W.  
Cozian, Antoine, *see* Malinovsky, Jean-Marc  
Crommelin, M. A., *see* Korsten, H. H. M.  
Crone, Lesley-Ann L., Vogel, Wendy: Failed Spinal Anesthesia with the Sprotte Needle, 717  
Crossan, Mary-Lou, *see* MacKenzie, Alex E.  
Crowley, J. Jay, *see* March, Mollyann G.  
Curry, Craig: *Manual of Pain Management*, edited by Carol A. Warfield, 926  
Curry, Craig, Lenox, W. Casey, Spannhake, E. William, Hirshman, Carol Ann: Contractile Responses of Guinea Pig Trachea to Oxybarbiturates and Thiobarbiturates, 679  
Cutarelli, Vincent: Reply, 714  
Cutkomp, Johann, *see* Hindman, Bradley J.  
Czeke, Almos, *see* Boldt, Joachim

# D

Dallen, Larry T., Wine, Rodger, Benumof, Jonathan L.: Spontaneous Ventilation via Transtracheal Large-bore Intravenous Catheters is Possible, 531  
Daly, Robert, Seravalli, Egilde: "Do-not-resuscitate" Orders during Anesthesia and Surgery, 709  
Dapper, Friedhelm, *see* Boldt, Joachim  
Datta, S.: Anesthetic and Obstetric Management of High-risk Pregnancy, 925  
Davis, P. D., *see* Parbrook, G. D.  
Davis, P. J., *see* Motoyama, E. K.  
Deal, Dwight D., *see* Prough, Donald S.  
Dean, J. Michael, *see* Berkowitz, Ivor D.  
DeBruijin, Norbert P., Clements, Fiona M.: Intraoperative Use of Echocardiography, 925  
Debucquoy, Filip, *see* Camu, Frederic

Deegan, Robert, He, Huai Bing, Wood, Alastair J. J., Wood, Margaret: Effects of Anesthesia on Norepinephrine Kinetics: Comparison of Propofol and Halothane Anesthesia in Dogs, 481  
Deem, Steven, Shapiro, Harvey M., Marshall, Lawrence F.: Quadraplegia in a Patient with Cervical Spondylosis after Thoracolumbar Surgery in the Prone Position, 527  
Deen, Louis, *see* Kalkman, Cor J.  
Deers, Mark A., *see* Schubert, Armin  
Defalque, Ray J., Wright, A. J.: The First Anesthetic Mixture, 1118  
deKock, Marc: Site of Hemodynamic Effects of  $\alpha_1$ -Adrenergic Agonists, 715  
Dershwitz, Mark, Rosow, Carl E., DiBiase, Patricia M., Zaslavsky, Alan: Reply, 707  
DeWitt, Douglas S., *see* Prough, Donald S.  
Dexter, Franklin, *see* Hindman, Bradley J.  
Dhiman, R. K., *see* Baronia, A. K.  
DiBiase, Patricia M., *see* Dershwitz, Mark  
Dietrich, W., Richter, J. A., Schramm, W., Spannagl, M.: Reply, 378  
Dirksen, Ris, *see* Lerou, Jos G. C.  
Ditto, Frank F., III, *see* Gibbons, James J.  
Doblar, Dennis D., *see* Hitt, Kevin L.  
Dodds, T. M., Haney, M. F., Appleton, F. M.: Management of Peripartum Congestive Heart Failure Using Continuous Arteriovenous Hemofiltration in a Patient with Myotonic Dystrophy, 907  
Dohi, Shuji, *see* Nishikawa, Toshiaki  
Douglas, Pamela S., *see* Lowenstein, Edward  
Drachman, Douglas, Strichartz, Gary: Potassium Channel Blockers Potentiate Impulse Inhibition by Local Anesthetics, 1051  
Drasner, Kenneth, Rigler, Mark L.: Repeat Injection after a "Failed Spinal": At Times, a Potentially Unsafe Practice, 713  
Drasner, Kenneth, *see* Rigler, Mark L.  
Ducey, Joseph P., Fincher, Cecil W., Baysinger, Curtis L.: Therapeutic Suppression of a Permanent Ventricular Pacemaker Using a Peripheral Nerve Stimulator, 533  
Dudas, Louise, *see* Robertie, Paul G.  
Duke, Peter C., *see* Lutner, Rachel E.  
Dunn, Catherine M., *see* Gunter, Joel B.  
Dunn, W. Thomas, Jr., *see* Stevens, Donald S.  
Dutrillaux, F., *see* Merle, Jean-Pierre

# E

Eckerle, Joseph S., *see* Kemmotsu, Osamu  
Eddy, A. Craig, *see* Kharasch, Evan D.  
Efsthathiou, Constantinos, *see* Pulley, Debra D.  
Einarson, D. W., *see* Parlow, Joel L.  
Eisenach, James C.: Mechanism of Antiarrhythmic Effect of Dexmedetomidine on epinephrine-induced arrhythmias, 1116  
Eisenach, James C.: Respiratory Depression Following Intrathecal Opioids, 712  
Elliott, Thomas E., *see* Jaffe, Rory S.  
Ellis, John E., *see* Aronson, Solomon  
Elmore, Jeffrey C., *see* Whitten, Charles W.



Ennis, Jeffrey Howard: Opioid Analgesics and the Burning Pain of Guillain-Barré Syndrome, 913

Epstein, Richard H., Bartkowski, Richard R., Huffnagle, Suzanne: Continuous Noninvasive Finger Blood Pressure during Controlled Hypotension: A Comparison with Intraarterial Pressure, 796

Etches, Richard C., Sandler, Alan N., Lawson, Stephanie L.: A Comparison of the Analgesic and Respiratory Effects of Epidural Nalbuphine or Morphine in Postthoracotomy Patients, 9

Eurin, Joëlle, *see* Rouby, Jean-Jacques

Evans, George, *see* Zacher, Allan N.

## F

Fehr, David M., Nyhan, Daniel P., Chen, Besie B., Murray, Paul A.: Pulmonary Vasoconstriction by Cyclooxygenase Metabolites and Angiotensin II after Hypoperfusion in Conscious, Pentobarbital-anesthetized, and Halothane-anesthetized Dogs, 257

Feinstein, Steven B., *see* Aronson, Solomon  
Fennessey, Paul V., *see* Morrison, John E., Jr.  
Ferguson, Gary G., *see* Lam, Arthur M.

Fincher, Cecil W., *see* Ducey, Joseph P.

Fink, B. Raymond: ASA Award: John F. Nunn, 560

Finster, M., *see* Santos, A. C.

Fisher, Dennis M., *see* Spears, Robert S., Jr.

Fisher, Malcolm M., Baldo, Brian A., Silbert, Brendan S.: Anaphylaxis during Anesthesia: Use of Radioimmunoassays to Determine Etiology and Drugs Responsible in Fatal Cases, 1112

Fletcher, Jeffrey E., *see* Levitt, Roy C.

Fletcher, Roger: The Relationship Between the Arterial to End-tidal  $PCO_2$  Difference and Hemoglobin Saturation in Patients with Congenital Heart Disease, 210

Foldes, Francis F., Nagashima, Hideo, Nguyen, Hung D., Schiller, Wilma S., Mason, Mary M., Ohta, Yoshio: The Neuromuscular Effects of ORG9426 in Patients Receiving Balanced Anesthesia, 191

Forbes, Robert B., *see* Murray, David J.

Frais, Michael A., *see* Thomson, Ian R.

Frank, Steven M., Norris, Edward J., Christopherson, Rose, Beattie, Charles: Right- and Left-arm Blood Pressure Discrepancies in Vascular Surgery Patients, 457

Fratacci, Marie-Dominique, Frostell, Claes S., Chen, Tong-Yen, Wain, John C., Jr., Robinson, Dwight R., Zapol, Warren M.: Inhaled Nitric Oxide: A Selective Pulmonary Vasodilator of Heparin-Protamine Vasoconstriction in Sheep, 990

Freyburger, G., *see* Janvier, G.

Froese, A., *see* Jacka, M.

Frostell, Claes S., *see* Fratacci, Marie-Dominique

Fujioka, Hitoshi, *see* Shimoji, Koki

Fujise, Kumiko, *see* Asai, Takashi

Fujita, Yoshihisa, Kimura, Ken'ichi, Hamada, Hiroshi, Takaori, Masuhiki: Comparative Effects of Halothane, Isoflurane, and Sevoflurane on the Liver with Hepatic Artery Ligation in the Beagle, 313

Fujiwara, Naoshi, *see* Shimoji, Koki

Fukuda, Satoru, *see* Shimoji, Koki

Funatsu, Naohiko, *see* Hindman, Bradley J.

Fung, Dennis L., White, David A., Jones, Brian R., Gronert, Gerald A.: The Onset of Disuse-related Potassium Efflux to Succinylcholine, 650

Furman, Wayne L., *see* Tobias, Joseph D.

Fusciardi, J., *see* Karayan, J.

## G

Gaba, David M., Howard, Steven K.: Human Error in Anesthesia, February 26-March 1, 1991, 553

Gallagher, John D.: The Electrophysiologic Effects of Amiodarone and Halothane on Canine Purkinje Fibers, 106

Gallagher, John D., McClerman, Candace A.: The Effects of Halothane on Ventricular Tachycardia in Intact Dogs, 866

Gandjbakhch, Iraj, *see* Rouby, Jean-Jacques

Gea, Joaquim, Roca, Josep, Torres, Antoni, Agustí, Alvar G. N., Wagner, Peter D., Rodriguez-Roisin, Robert: Mechanisms of Abnormal Gas Exchange in Patients with Pneumonia, 782

Genton, Randall E., *see* Pulley, Debra D.

Gervais, Hendrik, *see* Berkowitz, Ivor D.

Gessa, G. L., *see* Peduto, V. A.

Ghoneim, M. M., *see* Block, Robert I.

Gibbons, James J., Ditto, Frank F., III: Sudden Asystole after Spinal Anesthesia Treated with the "Pacing Thump", 705

Ginsburg, Richard S., Porterfield, Kim, Lippmann, Maurice: Propofol: Bolus Induction plus Continuous Infusion in a Patient with Duchenne Muscular Dystrophy, 376

Gobuty, A. H., *see* Rawal, Narinder

Godet, Gilles, *see* Baron, Jean-François

Goffen, Bernard S.: Proper Needle Size for Performing Cervical Epidural Injections, 166

Goldman, E., Road, J., Grassino, A.: Recovery of Costal and Crural Diaphragmatic Contractility from Partial Paralysis, 123

Gordon, Michael A., Urban, Michael K., O'Connor, Teresa, Barash, Paul G.: Reply, 711

Goto, Ryokichi, *see* Maekawa, Nobuhiro; also *see* Mikawa, Katsuya

Grassino, A., *see* Goldman, E.

Gravenstein, Nikolaus, Blackshear, Robert H., Wissler, Richard N.: An Approach to Spinal or Epidural Catheters That Are Difficult to Remove, 544

Griffin, James D., *see* Whitten, Charles W.

Gronert, Gerald A., *see* Fung, Dennis L.; also *see* Jaffe, Rory S.

Gross, Jeffrey B.: *Studying a Study and Testing a Test: How to Read the Medical Literature*, Second Edition, by Richard K. Riegelman and Robert P. Hirsch, 1128

Gross, Jeffrey B., Weller, Robert S., Conard, Patilyn: Flumazenil Antagonism of Midazolam-induced Ventilatory Depression, 179

Gross, Jeffrey B., *see* Blouin, Robert T.

Grouls, R. J. E., *see* Korsten, H. H. M.

Grum, Daniel F.: Reply, 1126

Gunning, Thomas C., *see* Swygert, Thomas H.

Gunter, Joel B., Dunn, Catherine M., Bennie, Jeffrey B., Pentecost, Diane L., Bower, Richard J., Ternberg, Jessie L.: Optimum Concentration of Bupivacaine for Combined Caudal-General Anesthesia in Children, 57

Guo, Tian-Zhi, Tinklenberg, Julie, Oliker, Rachel, Maze, Mervyn: Central  $\alpha_1$ -Adrenoceptor Stimulation Functionally Antagonizes the Hypnotic Response to Dexmedetomidine, an  $\alpha_2$ -Adrenoceptor Agonist, 252

Gustafson, Ingvar, *see* Nellgård, Bengt

## H

Habebe, Charles M., *see* Orr, Rosemary J.  
Hackmann, Thomas, Steward, David J., Sheps, Samuel B.: Anemia in Pediatric Day-surgery Patients: Prevalence and Detection, 27

Haering, J. Michael, *see* Lowenstein, Edward

Hague, Brian I., *see* Streisand, James B.

Hall, Steven C., *see* Stevenson, G. W.

Hamada, Hiroshi, *see* Fujita, Yoshihisa

Handal, Arthur G., *see* Bortolussi, Mario E.

Haney, M. F., *see* Dodds, T. M.

Hannallah, Medhat: The Univent® Tube: Bronchial Cuff Inflation, 165

Harf, Alain, *see* Beydon, Laurent; also *see* Brochard, Laurent

Hargardine, Judy, *see* Rawal, Narinder

Harrington, Jeanette, *see* Hindman, Bradley J.

Harrison, L. Mark, *see* Morrison, John E., Jr.

Hartung, John, *see* Pompy, Lesley

Hastings, Randolph H., McKay, Warren R.: Treatment of Benign Chronic Abdominal Pain with Neurolytic Celiac Plexus Block, 156

Hatanaka, Tetsuo, Yamashita, Taku: Another Cause of Upper Airway Obstruction, 1117  
Hatori, Tsuruo, *see* Shimoji, Koki

Haudecoeur, Ghislain, *see* Adnet, Pascal J.

Hayashi, Yukio, Sumikawa, Koji, Maze, Mervyn: Reply, 1116

Hayashi, Yukio, Sumikawa, Koji, Maze, Mervyn, Yamatodani, Atsushi, Kamibayashi, Takahiko, Kuro, Masakazu, Yoshiya, Ikuto: Dexmedetomidine Prevents Epinephrine-induced Arrhythmias Through Stimulation of Central  $\alpha_2$  Adrenoceptors in Halothane-anesthetized Dogs, 113

Hayashi, Yukio, *see* Kamibayashi, Takahiko



Heerd, Paul M., Triantafyllou, Anastasios: Perioperative Management of Patients Receiving a Lung Transplant, 922  
He, Huai Bing, *see* Deegan, Robert  
Hemelrijck, Jan Van, Smith, Ian, White, Paul F.: Use of Desflurane for Outpatient Anesthesia: A Comparison with Propofol and Nitrous Oxide, 197  
Hempelmann, Gunter, *see* Boldt, Joachim  
Hennes, Hans Jürgen, *see* Jantzen, Jan-Peter A. H.  
Herold, Christoph, *see* Boldt, Joachim  
Herva, Rita, *see* Rawal, Narinder  
Hill, Harlan F., *see* Bernards, Christopher M.; *also see* Kharasch, Evan D.  
Hillman, Robert, *see* Rinder, Christine S.  
Hindman, Bradley J., Funatsu, Naohiko, Harrington, Jeanette, Cutkomp, Johann, Dexter, Franklin, Todd, Michael M., Tinker, John H.: Cerebral Blood Flow Response to  $P_{aCO_2}$  during Hypothermic Cardiopulmonary Bypass in Rabbits, 662  
Hiraga, Kazuaki, *see* Nishino, Takashi  
Hirsch, Irl B., White, Paul F.: Reply, 912  
Hirsch, Robert P., *see* Riegelman, Richard K.  
Hirshberg, Gary E., *see* Riegle, Elaine V.  
Hirshman, Carol Ann, *see* Curry, Craig  
Hitt, Kevin L., Doblar, Dennis D.: The Risk of Tracheal Aspiration of Surgically Produced Foreign Bodies, 915  
Hoefsloot, F., *see* Korsten, H. H. M.  
Hoelt, Andreas, Sonntag, Hans, Stephan, Heidrun, Kettler, Dietrich: Validation of Myocardial Oxygen Demand Indices in Patients Awake and during Anesthesia, 49  
Hoehner, Paul J., Quigg, Mary C., Blank, Thomas J. J.: Halothane Depresses D600 Binding to Bovine Heart Sarcolemma, 1019  
Hofer, Roger E., Lanier, William L.: The Effects of Insulin Infusion on Plasma and Brain Glucose in Hyperglycemic Diabetic Rats: A Comparison with Placebo-treated Diabetic and Nondiabetic Rats, 673  
Hoffmann, Raymond G., *see* Palmisano, Barbara W.  
Hoffman, William E., Kochs, Eberhard, Werner, Christian, Thomas, Chinamma, Albrecht, Ronald F.: Dexmedetomidine Improves Neurologic Outcome from Incomplete Ischemia in the Rat: Reversal by the  $\alpha_2$ -Adrenergic Antagonist Atipamezole, 328  
Hogan, Quinn H.: Lumbar Epidural Anatomy: A New Look by Cryomicrotome Section, 767  
Hogue, Charles W., Jr., Platin, Mitchell, Barzilai, Benico, Kaiser, Larry R.: Intraoperative Use of Transesophageal Echocardiography with Pulsed-wave Doppler Evaluation of Ventricular Filling Dynamics during Pericardiotomy, 701  
Hokari, Tamaki, *see* Shimoji, Koki  
Holbrook, R. Hal, *see* Loftus, John R.  
Hommeril, Jean-Luc, *see* Bernard, Jean-Marc

Hool, Geoffrey J.: A Second Sir Humphry Davy?, 705  
Horrow, Jan C., Abrams, Jonathan T., VanRiper, Daniel F., Lambson, David L., Storella, Robert J.: Ventilatory Compliance after Three Sufentanil-Pancuronium Induction Sequences, 969  
Horrow, Jan C., Pharo, Gregory: Successful Defibrillation with Near-simultaneous Orthogonal Discharges, 362  
Hosking, Michael P.: Should Calcium Be Administered Prior to Separation from Cardiopulmonary Bypass?, 1121  
Howard, Steven K., *see* Gaba, David M.  
Hudson, Robert J., *see* Thomson, Ian R.  
Huffnagle, Suzanne, *see* Epstein, Richard H.  
Hug, Carl C., Jr., *see* Bailey, James M.  
Hunter, John G., *see* Bortolussi, Mario E.  
Hutmacher, M., *see* Zbinden, A. M.  
Hyatt, John, *see* Barker, Steven J.  
Hynson, James M., *see* Larson, Merlin D.

# I

Ide, Tohru, *see* Isono, Shiroh  
Inoue, Yoshitaka, *see* Tanigawa, Koichi  
Ishikawa, Teruhiko, *see* Nishino, Takashi  
Isono, Shiroh, Ide, Tohru, Kochi, Tetsuo, Mizuguchi, Tadanobu, Nishino, Takashi: Effects of Partial Paralysis on the Swallowing Reflex in Conscious Humans, 980  
Itoh, Takeo, *see* Akata, Takashi  
Iwata, Sadayuki, *see* Tanigawa, Koichi

# J

Jacka, M., Froese, A.: Tracheal Extubation in Children, 546  
Jackson, Kyle, Rauck, Richard L.: Reply, 166  
Jaffe, Richard A., Pinto, Fausto J., Schnittger, Ingela, Brock-Utne, John G.: Intraoperative Ventilator-induced Right-to-left Intracardiac Shunt, 153  
Jaffe, Rory S., Martucci, Richard W., Gronert, Gerald A., Elliott, Thomas E., Cardinet, George H., III: Malignant Hyperthermia: Normal Muscle Calcium Uptake and Abnormal Caffeine and Halothane Contractions, 525  
Jantzen, Jan-Peter A. H., Hennes, Hans Jürgen: Pigtail Oximetry, 707  
Janvier, G., Winnock, S., Freyburger, G.: Value of the Activated Partial Thromboplastin Time for Preoperative Detection of Coagulation Disorders Not Revealed by a Specific Questionnaire, 920  
Johns, Roger A.: EDRF/Nitric Oxide: The Endogenous Nitrovasodilator and a New Cellular Messenger, 927  
Jones, Brian R., *see* Fung, Dennis L.  
Jordan, Desmond A., Miller, Edward D., Jr.: Subarachnoid Blockade Alters Homeostasis by Modifying Compensatory Splanchnic

Responses to Hemorrhagic Hypotension, 654  
Joy, R. M., *see* Albertson, T. E.

# K

Kaiser, Larry R., *see* Hogue, Charles W., Jr.  
Kalkman, Cor J., Boezeman, Eduard H., Ribberink, Ariëne A., Oosting, Johannes, Deen, Louis, Bovill, James G.: Influence of Changes in Arterial Carbon Dioxide Tension on the Electroencephalogram and Posterior Tibial Nerve Somatosensory Cortical Evoked Potentials during Alfentanil/Nitrous Oxide Anesthesia, 68  
Kamibayashi, Takahiko, Hayashi, Yukio, Sumikawa, Koji, Yamatodani, Atsushi, Kawabata, Kazunaga, Yoshiya, Ikuto: Enhancement by Propofol of Epinephrine-induced Arrhythmias in Dogs, 1035  
Kamibayashi, Takahiko, *see* Hayashi, Yukio  
Kampine, John P., *see* Kenny, Dermot; *also see* Laszlo, Adam; Palmisano, Barbara W.; Polic, Stojan; Poterack, Karl A.; Schmeling, William T.; Stowe, David F.  
Kanzaria, Rajendra V., *see* Stevens, Donald S.  
Karayan, J., LaCoste, L., Fuscicardi, J.: Postoperative Apnea in a Full-term Infant, 375  
Karlin, Andrew, *see* Pompy, Lesley  
Karp, Robert B., *see* Aronson, Solomon  
Kater, Kathy, *see* Pulley, Debra D.  
Katz, Joel, Vaccarino, Anthony L., Coderre, Terence J., Melzack, Ronald: Injury Prior to Neurectomy Alters the Pattern of Autotomy in Rats: Behavioral Evidence of Central Neural Plasticity, 876  
Kawabata, Kazunaga, *see* Kamibayashi, Takahiko  
Kelermenos, Nicholas, *see* Pulley, Debra D.  
Kelly, James B., Jr., Boyd, Gwendolyn, Plagenhoef, Jeffrey: A New Presentation of Post-Dural Puncture Complication, 548  
Kemmtsu, Osamu, Ueda, Mitsuo, Otsuka, Hiroshi, Yamamura, Takeyasu, Winter, Dean C., Eckerle, Joseph S.: Arterial Tonometry for Noninvasive, Continuous Blood Pressure Monitoring during Anesthesia, 333  
Kemmtsu, Osamu, *see* Otsuka, Hiroshi  
Kendig, Joan J., *see* Savola, Maarit K. T.  
Kenny, Dermot, Proctor, Lester T., Schmeling, William T., Kampine, John P., Warltier, David C.: Isoflurane Causes Only Minimal Increases in Coronary Blood Flow Independent of Oxygen Demand, 640  
Kentsch, Michael, Roewer, Norbert, Kunze, Klaus-Peter, Kuck, Karl-Heinz: Intravenous Dantrolene Does Not Exhibit Calcium Channel Blocking Effects on the Cardiac Conduction System in Humans, 583  
Keon, Thomas P., *see* Litman, Ronald S.  
Kepner, G. R.: *Studies of Narcosis*, by Charles Ernest Overton, 552  
Kestin, I. G.: Effects of Midazolam and/or Butorphanol: II, 706

- Kettler, Dietrich, *see* Hoeft, Andreas /  
Kharasch, Evan D., Hill, Harlan F., Eddy, A. Craig: Influence of Dexmedetomidine and Clonidine on Human Liver Microsomal Al-fentanil Metabolism, 520  
Kien, Nguyen D., *see* Moore, Peter G.  
Kim, Jae-Seung, *see* Yang, Victor C.  
Kim, Steve, *see* Lutner, Rachel E.  
Kimura, Ken'ichi, *see* Fujita, Yoshihisa  
Kirvaasilis, George V., *see* Pulley, Debra D.  
Kissin, Igor, Brown, Pamela T., Bradley, Edwin L., Jr.: Magnitude of Acute Tolerance to Opioids Is Not Related to Their Potency, 813  
Knight, Paul R., *see* Wilde, Dixon W.  
Knill, R. L.: Ethics in Publication and the "Operator.", 545  
Kochi, Tetsuo, *see* Isono, Shiroh  
Kochs, Eberhard, *see* Hoffman, William E.  
Koehler, Raymond C., *see* Berkowitz, Ivor D.  
Kolmer, Herman H. Beneken, *see* Lerou, Jos G. C.  
Komura, Yoshihiro, *see* Otsuka, Hiroshi  
Kopman, Aaron F.: Tactile Evaluation of Train-of-four Count as an Indicator of Reliability of Antagonism of Vecuronium- or Atracurium-induced Neuromuscular Blockade, 588  
Korneluk, Robert, *see* MacKenzie, Alex E.  
Korsten, H. H. M., Ackerman, E. W., Grouls, R. J. E., VanZundert, A. A. J., Boon, W. F., Bal, F., Crommelin, M. A., Ribot, J. G., Hoefsloot, F., Slooff, J. L.: Long-lasting Epidural Sensory Blockade by n-Butyl-p-Aminobenzoate in the Terminally Ill Intractable Cancer Pain Patient, 950  
Krivacic-Horber, Renée M., *see* Adnet, Pascal J.  
Kuck, Karl-Heinz, *see* Kentsch, Michael  
Kunze, Klaus-Peter, *see* Kentsch, Michael  
Kuro, Masakazu, *see* Hayashi, Yukio  
Kurth, C. D., LeBard, S. E.: Association of Postoperative Apnea, Airway Obstruction, and Hypoxemia in Former Premature Infants, 22
- L**
- LaCoste, L., *see* Karayan, J.  
Lahey, Donelda, *see* MacKenzie, Alex E.  
Laitinen, Jorma O., *see* Salomäki, Timo E.  
Lam, Arthur M., Manninen, Pirjo H., Ferguson, Gary G., Nantau, William: Monitoring Electrophysiologic Function during Carotid Endarterectomy: A Comparison of Somatosensory Evoked Potentials and Conventional Electroencephalogram, 15  
Lambson, David L., *see* Horrow, Jan C.  
Lançon, Jean-Pierre, *see* Merle, Jean-Pierre  
Landault, Catherine, *see* Rouby, Jean-Jacques  
Lanier, William L., *see* Hofer, Roger E.  
Lappas, Demetrios G., *see* Pulley, Debra D.  
Larach, David R., Schuler, H. Gregg: Direct Vasodilation by Sevoflurane, Isoflurane, and Halothane Alters Coronary Flow Reserve in the Isolated Rat Heart, 268  
Laroche, Dominique, Vergnaud, Marie-Claude, Sillard, Béatrice, Soufarapis, Henri, Bricard, Henri: Biochemical Markers of Anaphylactoid Reactions to Drugs: Comparison of Plasma Histamine and Tryptase, 945  
Larson, Merlin D., Sessler, Daniel I., McGuire, Joseph, Hynson, James M.: Isoflurane, but Not Mild Hypothermia, Depresses the Human Pupillary Light Reflex, 62  
Laszlo, Adam, Polic, Stojan, Atlee, John L., III, Kampine, John P., Bosnjak, Zeljko J.: Anesthetics and Automaticity in Latent Pacemaker Fibers: I. Effects of Halothane, Enflurane and Isoflurane on Automaticity and Recovery of Automaticity from Overdrive Suppression in Purkinje Fibers Derived from Canine Hearts, 98  
Laszlo, Adam, Polic, Stojan, Kampine, John P., Turner, Lawrence A., Atlee, John L., III, Bosnjak, Zeljko J.: Halothane, Enflurane, and Isoflurane on Abnormal Automaticity and Triggered Rhythmic Activity of Purkinje Fibers from 24-hour-old Infarcted Canine Hearts, 847  
Laszlo, Adam, *see* Polic, Stojan  
Latson, Terry W., *see* Whitten, Charles W.  
Lawson, Stephanie L., *see* Etches, Richard C.  
LeBard, S. E., *see* Kurth, C. D.  
Lee, Bryan K., *see* Aronson, Solomon  
Lee, Kathryn A., *see* Sessler, Daniel I.  
Lee, Steven, Tremper, Kevin K., Barker, Steven J.: Effects of Anemia on Pulse Oximetry and Continuous Mixed Venous Hemoglobin Saturation Monitoring in Dogs, 118  
Lee, Tai-Shion, Virtusio, Lourdes: Inotropic Effect of Amrinone, 380  
Léger, Philippe, *see* Rouby, Jean-Jacques  
Lehmkuhl, Linda, *see* Rawal, Narinder  
Lemaire, François, *see* Beydon, Laurent; *also see* Brochard, Laurent  
LeMaire, Leon, *see* Streisand, James B.  
Lenox, W. Casey, *see* Curry, Craig  
Lepage, Jean-Yves, *see* Malinovsky, Jean-Marc  
Lerman, Jerrold, *see* Taylor, Robert H.  
Lerou, Jos G. C., Dirksen, Ris, Kolmer, Herman H. Beneken, Booi, Leo H. D. J., Borm, George F.: A System Model for Closed-circuit Inhalation Anesthesia: II. Clinical Validation, 230  
Lerou, Jos G. C., Dirksen, Ris, Kolmer, Herman H. Beneken, Booi, Leo H. D. J.: A System Model for Closed-circuit Inhalation Anesthesia: I. Computer Study, 345  
Levitt, Roy C., Meyers, Deborah, Fletcher, Jeffrey E., Rosenberg, Henry: Molecular Genetics and Malignant Hyperthermia, 1  
Levron, Jean Claude, *see* Rostaing, Sylvie  
Levy, Jerrold H.: Anaphylaxis during Anesthesia, 712  
Levy, Jerrold H., *see* Bailey, James M.  
Licina, Michael G., *see* Schubert, Armin  
Lightstone, Harold: Application of Molecular Genetics to Anesthesiology, 1126  
Lin, Cheng-I, *see* Chou, Yuan-Hwa  
Lindeman, Karen S.: *Anesthetic and Obstetric Management of High-risk Pregnancy*, by S. Datta, 924  
Lineberry, Paul J., *see* Schubert, Armin  
Lippmann, Maurice, *see* Ginsburg, Richard S.  
Litman, Ronald S., Keon, Thomas P.: Postintubation Croup in Children, 1122  
Loftus, John R., Holbrook, R. Hal, Cohen, Sheila E.: Fetal Heart Rate after Epidural Lidocaine and Bupivacaine for Elective Cesarean Section, 406  
Loper, Keith A., *see* Ready, L. Brian  
Lorenz, Robert R., *see* Sayiner, Abdullah  
Lorino, Hubert, *see* Brochard, Laurent  
Lovering, Sandra L., *see* Rawal, Narinder  
Lowenstein, Edward, Haering, J. Michael, Douglas, Pamela S.: Acute Ventricular Wall Motion Heterogeneity: A Valuable but Imperfect Index of Myocardial Ischemia, 385  
Lowenstein, Edward, *see* Park, Kyung W.  
Lutner, Rachel E., Roizen, Michael F., Stocking, Carol B., Thisted, Ronald A., Kim, Steve, Duke, Peter C., Pompei, Peter, Cassel, Christine K.: The Automated Interview versus the Personal Interview: Do Patient Responses to Preoperative Health Questions Differ?, 394  
Luttrupp, Hans-Henrik, Rydgren, Göran, Thomasson, Ronnie, Werner, Olof: A Minimal-flow System for Xenon Anesthesia, 896
- M**
- MacKenzie, Alex E., Allen, Gregory, Lahey, Donelda, Crossan, Mary-Lou, Nolan, Kevin, Mettler, Gabrielle, Worton, Ronald G., MacLennan, David H., Korneluk, Robert: A Comparison of the Caffeine Halothane Muscle Contracture Test with the Molecular Genetic Diagnosis of Malignant Hyperthermia, 4  
MacLennan, David H., *see* MacKenzie, Alex E.  
Maekawa, Nobuhiro, Mikawa, Katsuya, Tanaka, Osamu, Goto, Ryokichi, Obara, Hidefumi: The Laryngeal Mask May Be a Useful Device for Fiberoptic Airway Endoscopy in Pediatric Anesthesia, 169  
Maekawa, Nobuhiro, *see* Mikawa, Katsuya  
Maistre, Geneviève, *see* Rouby, Jean-Jacques  
Malhotra, Vinod, Rosen, Robert J., Slepian, Ralph L.: Life-threatening Hypoxemia after Lithotripsy in an Adult Due to Shock-wave-Induced Pulmonary Contusion, 529  
Malinovsky, Jean-Marc, Cozian, Antoine, Lepage, Jean-Yves, Mussini, Jean-Marie, Pinaud, Michel, Souron, Rémi: Ketamine and Midazolam Neurotoxicity in the Rabbit, 91  
Mangar, Devanand, Connell, G. Raymond: Percutaneous Puncture of the Internal

Jugular Vein Using Continuously Transduced Pressure, 383  
 Manninen, Pirjo H., *see* Lam, Arthur M.  
 Marathe, Punit H., Shen, Danny D., Artru, Alan A., Bowdle, T. Andrew: Effect of Serum Protein Binding on the Entry of Lidocaine into Brain and Cerebrospinal Fluid in Dogs, 804  
 March, Mollyann G., Crowley, J. Jay: An Evaluation of Anesthesiologists' Present Checkout Methods and the Validity of the FDA Checklist, 724  
 Marijic, Jure, *see* Stowe, David F.  
 Marshall, Lawrence F., *see* Deem, Steven  
 Martucci, Richard W., *see* Jaffe, Rory S.  
 Mason, Mary M., *see* Foldes, Francis F.  
 Mathew, Joseph P., *see* Rinder, Christine S.  
 Mathews, Edwin L.: More on Benzocaine and Methemoglobinemia, 715  
 Matthews, Dennis, *see* Morrison, John E., Jr.  
 Mattila, Severi, *see* Salmenperä, Markku  
 Maurer, Walter G.: A Disadvantage of Similar Machine Controls, 167  
 Mayumi, Takahisa, *see* Otsuka, Hiroshi  
 Maze, Mervyn, *see* Guo, Tian-Zhi; *also see* Hayashi, Yukio; Savola, Maarit K. T.  
 McClerman, Candace A., *see* Gallagher, John D.  
 McGuire, Joseph, *see* Larson, Merlin D.; *also see* Sessler, Daniel I.  
 McKay, Warren R., *see* Hastings, Randolph H.  
 Mehr, Elon H.: *Basic Physics and Measurement in Anaesthesia*, Third Edition, by G. D. Parbrook, P. D. Davis, and E. O. Parbrook, 1128  
 Mehta, Mahesh P., *see* Murray, David J.  
 Meignan, Michel, *see* Beydon, Laurent  
 Melzack, Ronald, *see* Katz, Joel  
 Merle, Jean-Pierre, Lançon, Jean-Pierre, Dutilleul, F., Obadia, Jean-François, Caillard, B.: Effects of Aprotinin in Postoperative Bleeding, 379  
 Messeri, Andrea, *see* Busoni, Paolo  
 Mettler, Gabrielle, *see* MacKenzie, Alex E.  
 Metz, Samuel: Little Risk of Hyperosmolar Coma Following Hyperglycemia during Cardiopulmonary Bypass, 912  
 Meyers, Deborah, *see* Levitt, Roy C.  
 Michenfelder, John D., Milde, James H.: The Relationship among Canine Brain Temperature, Metabolism, and Function during Hypothermia, 130  
 Mikawa, Katsuya, Maekawa, Nobuhiro, Goto, Ryokichi, Yaku, Hideaki, Obara, Hidefumi: Transparent Dressing Is Useful for the Secure Fixation of the Endotracheal Tube, 1123  
 Mikawa, Katsuya, *see* Maekawa, Nobuhiro  
 Milde, James H., *see* Michenfelder, John D.  
 Miller, Edward D., Jr., *see* Jordan, Desmond A.  
 Miller, Ronald D., *see* Smith, Graham  
 Mitchell, Jane, *see* Rinder, Christine S.  
 Mizuguchi, Tadanobu, *see* Isono, Shiroh

Moayeri, Azita, *see* Sessler, Daniel I.  
 Monroe, Sean M., *see* Stowe, David F.  
 Montgomery, C. J., Ready, L. B.: Epidural Opioid Analgesia Does Not Obscure Diagnosis of Compartment Syndrome Resulting from Prolonged Lithotomy Position, 541  
 Moore, Peter G., Kien, Nguyen D., Reitan, John A., White, David A., Safwat, Amira M.: No Evidence for Blood Flow Redistribution with Isoflurane or Halothane during Acute Coronary Artery Occlusion in Fentanyl-anesthetized Dogs, 854  
 Morgan, M., *see* Smith, Graham  
 Morishima, H. O., *see* Santos, A. C.  
 Morrison, John E., Jr., Matthews, Dennis, Washington, Reginald, Fennessey, Paul V., Harrison, L. Mark: Phenol Motor Point Blocks in Children: Plasma Concentrations and Cardiac Dysrhythmias, 359  
 Motoyama, E. K., Davis, P. J.: Smith's Anesthesia for Infants and Children, 1129  
 Mukaida, Keiko, *see* Otsuka, Hiroshi  
 Mundler, Olivier, *see* Baron, Jean-François  
 Murray, David J., Mehta, Mahesh P., Forbes, Robert B.: The Additive Contribution of Nitrous Oxide to Isoflurane MAC in Infants and Children, 186  
 Murray, Paul A., *see* Fehr, David M.  
 Mussini, Jean-Marie, *see* Malinovsky, Jean-Marc

N

Nagashima, Hideo, *see* Foldes, Francis F.  
 Nahas, Gabriel G.: Treatment of Cocaine-induced Cardiovascular Toxicity, 544  
 Nakashima, Mikio, *see* Akata, Takashi  
 Nantau, William, *see* Lam, Arthur M.  
 Nellgård, Bengt, Gustafson, Ingvar, Wieloch, Tadeusz: Lack of Protection by the N-Methyl-D-aspartate Receptor Blocker Dizocilpine (MK-801) after Transient Severe Cerebral Ischemia in the Rat, 279  
 Nessly, Michael, *see* Ready, L. Brian  
 Nguyen, Hung D., *see* Foldes, Francis F.  
 Nishikawa, Toshiaki, Dohi, Shuji: Oral Clonidine Blunts the Heart Rate Response to Intravenous Atropine in Humans, 217  
 Nishino, Takashi, Tanaka, Atsuko, Ishikawa, Teruhiko, Hiraga, Kazuaki: Respiratory, Laryngeal, and Tracheal Responses to Nasal Insufflation of Volatile Anesthetics in Anesthetized Humans, 441  
 Nishino, Takashi, *see* Isono, Shiroh  
 Nolan, Kevin, *see* MacKenzie, Alex E.  
 Norris, Edward J., *see* Frank, Steven M.  
 Nuutinen, Lauri, *see* Rawal, Narinder  
 Nuutinen, Lauri S., *see* Salomäki, Timo E.  
 Nyhan, Daniel P., *see* Fehr, David M.

O

Obadia, Jean-François, *see* Merle, Jean-Pierre  
 Obara, Hidefumi, *see* Maekawa, Nobuhiro; *also see* Mikawa, Katsuya

O'Connor, Teresa, *see* Gordon, Michael A.  
 Ohta, Yoshio, *see* Foldes, Francis F.  
 Oliker, Rachel, *see* Guo, Tian-Zhi  
 Onodera, Mayumi, *see* Shimoji, Koki  
 Oosting, Johannes, *see* Kalkman, Cor J.  
 Orr, Rosemary J., Haberkern, Charles M.: Reply, 169  
 Otsuka, Hiroshi, Komura, Yoshihiro, Mayumi, Takahisa, Yamamura, Takeyasu, Kemmotsu, Osamu, Mukaida, Keiko: Malignant Hyperthermia during Sevoflurane Anesthesia in a Child with Central Core Disease, 699  
 Otsuka, Hiroshi, *see* Kemmotsu, Osamu  
 Overton, Charles Ernest: Studies of Narcosis, 552

P

Palmieri, John, *see* Stevenson, G. W.  
 Palmisano, Barbara W., Clifford, Philip S., Hoffmann, Raymond G., Seagard, Jeanne L., Coon, Robert L., Kampine, John P.: Depression of Baroreflex Control of Heart Rate by Halothane in Growing Piglets, 512  
 Palmisano, Barbara W., Setlock, Mary A., Brown, Mary P., Siker, Daniel, Tripuraneni, Ravikumar: Dose-response for Atropine and Heart Rate in Infants and Children Anesthetized with Halothane and Nitrous Oxide, 238  
 Parbrook, E. O., *see* Parbrook, G. D.  
 Parbrook, G. D., Davis, P. D., Parbrook, E. O.: *Basic Physics and Measurement in Anesthesia*, 1128  
 Park, Kyung W., Lowenstein, Edward: Acute Complete Heart Block during Anesthesia in a Patient with Severe Coronary Artery Disease: Effect of Scopolamine versus Ischemia of the AV Node, 367  
 Parlow, Joel L., Einarson, D. W.: An Unusual Cause of Delayed Postmyelogram Headache, 145  
 Partridge, B. L.: The Effects of Local Anesthetics and Epinephrine on Rat Sciatic Nerve Blood Flow, 243  
 Passuti, Norbert, *see* Bernard, Jean-Marc  
 Paulsen, A. William, *see* Swygert, Thomas H.  
 Pearl, Ronald G., *see* Wakerlin, George E., Jr.  
 Pedersen, H., *see* Santos, A. C.  
 Peduto, V. A., Concas, A., Santoro, G., Biggio, G., Gessa, G. L.: Biochemical and Electrophysiologic Evidence That Propofol Enhances GABAergic Transmission in the Rat Brain, 1000  
 Pennant, John H., Wallace, Donald: Intrathecal Morphine and Reactivation of Oral Herpes Simplex, 167  
 Pennant, John H., Wallace, Donald H.: Reply, 920  
 Pentecost, Diane L., *see* Gunter, Joel B.  
 Pere, Pertti, *see* Tuominen, Marjatta K.  
 Petersen, Guy A.: Does Systematic Anticoagulation Increase the Risk of Internal Jugular Vein Cannulation?, 1124

- Pharo, Gregory, *see* Horrow, Jan C.  
 Pinaud, Michel, *see* Bernard, Jean-Marc; *also see* Malinovsky, Jean-Marc  
 Ping, S. T. Sum, *see* Block, Robert I.  
 Pinto, Fausto J., *see* Jaffe, Richard A.  
 Plagenhoef, Jeffrey, *see* Kelly, James B., Jr.  
 Platin, Mitchell, *see* Hogue, Charles W., Jr.  
 Pluskwa, Frédéric, *see* Rostaing, Sylvie  
 Polic, Stojan, Atlee, John L., III, Laszlo, Adam, Kampine, John P., Bosnjak, Zeljko J.: Anesthetics and Automaticity in Latent Pacemaker Fibers: II. Effects of Halothane and Epinephrine or Norepinephrine on Automaticity of Dominant and Subsidiary Atrial Pacemakers in the Canine Heart, 298  
 Polic, Stojan, Atlee, John L., III, Laszlo, Adam, Kampine, John P., Bosnjak, Zeljko J.: Anesthetics and Automaticity in Latent Pacemaker Fibers: III. Effects of Halothane and Ouabain on Automaticity of the SA Node and Subsidiary Atrial Pacemakers in the Canine Heart, 305  
 Polic, Stojan, *see* Laszlo, Adam  
 Pompei, Peter, *see* Lutner, Rachel E.  
 Pompy, Lesley, Karlin, Andrew, Capuano, Christine M., Cottrell, James E., Hartung, John: Paraben Preservatives Do Not Increase Intracranial Pressure in Cats, 669  
 Porterfield, Kim, *see* Ginsburg, Richard S.  
 Port, Friedrich K., *see* Yang, Victor C.  
 Posner, Karen L., *see* Cheney, Frederick W.  
 Poterack, Karl A., Kampine, John P., Schmeling, William T.: The Effect of Halothane on Thermosensitive Neurons in the Preoptic Region of the Anterior Hypothalamus in Acutely Instrumented Cats, 625  
 Pounder, D. R., Blackstock, D., Steward, D. J.: Reply, 546  
 Priddy, Richard E., *see* Archer, David P.  
 Prielipp, Richard C., *see* Butterworth, John F., IV; *also see* Robertie, Paul G.  
 Proctor, Lester T., *see* Kenny, Dermot  
 Prough, Donald S., Whitley, John M., Taylor, Carol L., Deal, Dwight D., DeWitt, Douglas S.: Regional Cerebral Blood Flow Following Resuscitation from Hemorrhagic Shock with Hypertonic Saline: Influence of a Subdural Mass, 319  
 Pulley, Debra D., Kirvassilis, George V., Keleremos, Nicholas, Kater, Kathy, Barzilai, Benico, Genton, Randall E., Efsthathiou, Constantinos, Lappas, Demetrios G.: Regional and Global Myocardial Circulatory and Metabolic Effects of Isoflurane and Halothane in Patients with Steal-prone Coronary Anatomy, 756

## Q

- Quigg, Mary C., *see* Hoehner, Paul J.  
 Quinn, John F.: Air Entrainment during Cardiopulmonary Bypass Surgery, 1120

## R

- Radermacher, Peter, *see* Beydon, Laurent  
 Raj, P. Prithvi, *see* Rawal, Narinder  
 Ramsay, James G., *see* Shanewise, Jack S.  
 Ramsay, Michael A. E., *see* Swygert, Thomas H.  
 Rasi, Vesa, *see* Salmenperä, Markku  
 Rauck, Richard L., *see* Jackson, Kyle  
 Rawal, Narinder, Nuutinen, Lauri, Raj, P. Prithvi, Lovering, Sandra L., Gobuty, A. H., Hargardine, Judy, Lehmkuhl, Linda, Herva, Rita, Abouleish, Ezzat: Behavioral and Histopathologic Effects Following Intrathecal Administration of Butorphanol, Sufentanil, and Nalbuphine in Sheep, 1025  
 Ready, L. B., *see* Montgomery, C. J.  
 Ready, L. Brian, Loper, Keith A., Nessly, Michael, Wild, Lorie: Postoperative Epidural Morphine Is Safe on Surgical Wards, 452  
 Rehder, Kai, *see* Sayiner, Abdullah  
 Reichek, Nathaniel, *see* Savino, Joseph S.  
 Reitan, John A., *see* Moore, Peter G.  
 Rekik, Nouredine, *see* Beydon, Laurent  
 Rennotte, Marie-Thérèse E., *see* Baele, Philippe L.  
 Reyford, Hugo, *see* Adnet, Pascal J.  
 Ribberink, Ariëne A., *see* Kalkman, Cor J.  
 Ribot, J. G., *see* Korsten, H. H. M.  
 Richter, J. A., *see* Dietrich, W.  
 Riegelman, Richard K., Hirsch, Robert P.: Studying a Study and Testing a Test: How to Read the Medical Literature, 1128  
 Riegle, Elaine V., Hirshberg, Gary E., Ternberg, Jessie L.: A Cause for Hemodynamic Instability during Hepatic Tumor Resection, 381  
 Rigler, Mark L., Drasner, Kenneth: Distribution of Catheter-injected Local Anesthetic in a Model of the Subarachnoid Space, 684  
 Rigler, Mark L., *see* Drasner, Kenneth  
 Rinder, Christine S., Bohnert, John, Rinder, Henry M., Mitchell, Jane, Ault, Kenneth, Hillman, Robert: Platelet Activation and Aggregation during Cardiopulmonary Bypass, 388  
 Rinder, Christine S., Mathew, Joseph P., Rinder, Henry M., Bonan, Jayne, Ault, Kenneth A., Smith, Brian R.: Modulation of Platelet Surface Adhesion Receptors during Cardiopulmonary Bypass, 563  
 Rinder, Henry M., *see* Rinder, Christine S.  
 Road, J., *see* Goldman, E.  
 Robertie, Paul G., Butterworth, John F., IV, Royster, Roger L., Prielipp, Richard C., Dudas, Louise, Black, Kimberly Ward, Cole, Lisa R., Zaloga, Gary P.: Normal Parathyroid Hormone Responses to Hypocalcemia during Cardiopulmonary Bypass, 43  
 Roberts, L. Clayton, *see* Swygert, Thomas H.  
 Robinson, Dwight R., *see* Fratacci, Marie-Dominique

- Roca, Josep, *see* Gea, Joaquim  
 Rodarte, Joseph R., *see* Sprung, Juraj  
 Rodriguez-Roisin, Robert, *see* Gea, Joaquim  
 Roerig, David L., *see* Schmeling, William T.  
 Roewer, Norbert, *see* Kentsch, Michael  
 Rogers, H. Gary, *see* Bailey, James M.  
 Roizen, Michael F., *see* Aronson, Solomon; *also see* Lutner, Rachel E.  
 Rosenberg, Henry, *see* Levitt, Roy C.  
 Rosenberg, Per H., *see* Tuominen, Marjatta K.  
 Rosenbloom, Morley, *see* Thomson, Ian R.  
 Rosen, David A., Rosen, Kathleen R.: A Palatable Gelatin Vehicle for Midazolam and Ketamine, 914  
 Rosen, Kathleen R., *see* Rosen, David A.  
 Rosen, Robert J., *see* Malhotra, Vinod  
 Rosow, Carl E., *see* Dershwitz, Mark  
 Rostaing, Sylvie, Bonnet, Francis, Levron, Jean Claude, Vodinh, Jocelyne, Pluskwa, Frédéric, Saada, Michel: Effect of Epidural Clonidine on Analgesia and Pharmacokinetics of Epidural Fentanyl in Postoperative Patients, 420  
 Rouby, Jean-Jacques, Andreev, Alexandre, Léger, Philippe, Arthaud, Martine, Landault, Catherine, Vicaut, Eric, Maistre, Geneviève, Eurin, Joëlle, Gandjbakch, Iradj, Viars, Pierre: Peripheral Vascular Effects of Thiopental and Propofol in Humans with Artificial Hearts, 32  
 Roy, Raymond C.: Hypoxia among the Experts, 915  
 Roysam, Chandrika S., *see* Charters, P.  
 Royster, Roger L., *see* Butterworth, John F., IV; *also see* Robertie, Paul G.  
 Rua, Fernando, *see* Brochard, Laurent  
 Rubinstein, Eduardo H., *see* Sessler, Daniel I.  
 Rusy, Ben F., *see* Woehlick, Harvey J.  
 Rydgren, Göran, *see* Luttropp, Hans-Henrik

## S

- Saada, Michel, *see* Rostaing, Sylvie  
 Sabourin, Mary Anne, *see* Archer, David P.  
 Safwat, Amira M., *see* Moore, Peter G.  
 Saidman, Lawrence J.: Reply, 705  
 Saidman, Lawrence J., *see* Smith, Graham  
 Salmenperä, Markku, Rasi, Vesa, Mattila, Severi: Cardiopulmonary Bypass in a Patient with Factor XII Deficiency, 599  
 Salomäki, Timo E., Laitinen, Jorma O., Nuutinen, Lauri S.: A Randomized Double-blind Comparison of Epidural versus Intravenous Fentanyl Infusion for Analgesia after Thoracotomy, 790  
 Samanani, Naaznin, *see* Archer, David P.  
 Sandler, Alan N., *see* Etches, Richard C.  
 Santoro, G., *see* Peduto, V. A.  
 Santos, A. C., Arthur, G. R., Pedersen, H., Morishima, H. O., Finster, M., Covino, B. G.: Systemic Toxicity of Ropivacaine during Ovine Pregnancy, 137



- Savino, Joseph S., Troianos, Christopher A., Aukburg, Stanley, Weiss, Richard, Reichel, Nathaniel: Measurement of Pulmonary Blood Flow with Transesophageal Two-dimensional and Doppler Echocardiography, 445
- Savino, Joseph S., *see* Cheung, Albert T.; *also see* Troianos, Christopher A.
- Savola, Maarit K. T., Woodley, Scott J., Maze, Mervyn, Kendig, Joan J.: Isoflurane and an  $\alpha_2$ -Adrenoceptor Agonist Suppress Nociceptive Neurotransmission in Neonatal Rat Spinal Cord, 489
- Sayiner, Abdullah, Lorenz, Robert R., Warner, David O., Rehder, Kai: Bronchodilation by Halothane Is Not Modulated by Airway Epithelium, 75
- Schaer, Heidi M.: Peripheral Nerve Injury and Automatic Blood Pressure Measurement, 381
- Schiller, Wilma S., *see* Foldes, Francis F.
- Schleien, Charles L., *see* Berkowitz, Ivor D.
- Schmeling, William T., Kampine, John P., Roerig, David L., Wartier, David C.: The Effects of the Stereoisomers of the  $\alpha_2$ -Adrenergic Agonist Medetomidine on Systemic and Coronary Hemodynamics in Conscious Dogs, 499
- Schmeling, William T., *see* Kenny, Dermot; *also see* Poterack, Karl A.
- Schnittger, Ingela, *see* Jaffe, Richard A.
- Schramm, W., *see* Dietrich, W.
- Schubert, Armin, Licina, Michael G., Lineberry, Paul J., Deers, Mark A.: The Effect of Intrathecal Morphine on Somatosensory Evoked Potentials in Awake Humans, 401
- Schuler, H. Gregg, *see* Larach, David R.
- Seagard, Jeanne L., *see* Palmisano, Barbara W.
- Seravalli, Egilde, *see* Daly, Robert
- Sessler, Daniel I.: Central Thermoregulatory Inhibition by General Anesthesia, 557
- Sessler, Daniel I., Lee, Kathryn A., McGuire, Joseph: Isoflurane Anesthesia and Circadian Temperature Cycles in Humans, 985
- Sessler, Daniel I., Rubinstein, Eduardo H., Moayeri, Azita: Physiologic Responses to Mild Perianesthetic Hypothermia in Humans, 594
- Sessler, Daniel I., *see* Larson, Merlin D.
- Sethna, Navil F., *see* Cooper, Michael G.
- Setlock, Mary A., *see* Palmisano, Barbara W.
- Shanewise, Jack S., Ramsay, James G.: *Anesthesia*, Third Edition, edited by R. D. Miller, 924
- Shapiro, Harvey M., *see* Deem, Steven
- Shen, Danny D., *see* Marathe, Punit H.
- Sheps, Samuel B., *see* Hackmann, Thomas
- Sheth, Neha, *see* Wilde, Dixon W.
- Shimaji, Koki, Fujioka, Hitoshi, Onodera, Mayumi, Hokari, Tamaki, Fukuda, Satoru, Fujiwara, Naoshi, Hatori, Tsuruo: Observation of Spinal Canal and Cisternae with the Newly Developed Small-diameter Flexible Fiberscopes, 341
- Siker, Daniel, *see* Palmisano, Barbara W.
- Silbert, Brendan S., *see* Fisher, Malcolm M.
- Sillard, Béatrice, *see* Laroche, Dominique
- Simeon, Rudy M., *see* Watcha, Mehernoor F.
- Singh, P. K., *see* Baronia, A. K.
- Sipes, Susan L., Chestnut, David H., Vincent, Robert D., Jr., Weiner, Carl P., Thompson, Chris S., Chatterjee, Papri: Does Magnesium Sulfate Alter the Maternal Cardiovascular Response to Vasopressor Agents in Gravid Ewes?, 1010
- Slepian, Ralph L., *see* Malhotra, Vinod
- Slooff, J. L., *see* Korsten, H. H. M.
- Smith, Brian R., *see* Rinder, Christine S.
- Smith, Graham, Miller, Ronald D., Saidman, Lawrence J., Morgan, M.: Reply, 545
- Smith, Ian, *see* Hemelrijk, Jan Van
- Sonntag, Hans, *see* Hoeft, Andreas
- Sosis, Mitchel B.: Effects of Midazolam and/or Butorphanol: I, 706
- Soufarapis, Henri, *see* Laroche, Dominique
- Souron, Rémi, *see* Malinovsky, Jean-Marc
- Spannagl, M., *see* Dietrich, W.
- Spannhake, E. William, *see* Curry, Craig
- Spears, Robert S., Jr., Yeh, Alice, Fisher, Dennis M., Zwass, Maurice S.: The "Educated Hand": Can Anesthesiologists Assess Changes in Neonatal Pulmonary Compliance Manually?, 693
- Sprung, Juraj, Cheng, Eugene Y., Bosnjak, Zeljko J.: Hypothermia and Serum Potassium Concentration, 164
- Sprung, Juraj, Rodarte, Joseph R.: More about the Mechanisms of Diaphragm Displacement during Spontaneous Breathing, 916
- Stanley, Theodore H., *see* Streisand, James B.
- Stanski, Donald R., *see* Streisand, James B.
- Stemp, Leo I., Taswell, Carl: Spastic Torticollis during General Anesthesia: Case Report and Review of Receptor Mechanisms, 365
- Stephan, Heidrun, *see* Hoeft, Andreas
- Stevens, Donald S., Cohen, Robert I., Kan-zaria, Rajendra V., Dunn, W. Thomas, Jr.: "Air in the Syringe": Patient-controlled Analgesia Machine Tampering, 697
- Stevens, Julia L., *see* Watcha, Mehernoor F.
- Stevenson, G. W., Hall, Steven C., Palmieri, John: Anesthetic Considerations for Patients with Larsen's Syndrome, 142
- Steward, David J.: The "Not-so-educated Hand" of the Pediatric Anesthesiologist, 555
- Steward, David J., *see* Hackmann, Thomas
- Steward, D. J., *see* Pounder, D. R.
- Stocking, Carol B., *see* Lutner, Rachel E.
- Storella, Robert J., *see* Horrow, Jan C.
- Stowe, David F.: Reply, 380
- Stowe, David F., Monroe, Sean M., Marijic, Jure, Bosnjak, Zeljko J., Kampine, John P.: Comparison of Halothane, Enflurane, and Isoflurane with Nitrous Oxide on Contractility and Oxygen Supply and Demand in Isolated Hearts, 1062
- Streisand, James B., Varvel, John R., Stanski, Donald R., LeMaire, Leon, Ashburn, Michael A., Hague, Brian I., Tarver, Stephen D., Stanley, Theodore H.: Absorption and Bioavailability of Oral Transmucosal Fentanyl Citrate, 223
- Strichartz, Gary, *see* Drachman, Douglas
- Strong, William E.: Reply, 709
- Sumikawa, Koji, *see* Hayashi, Yukio; *also see* Kamibayashi, Takahiko
- Swygert, Thomas H., Roberts, L. Clayton, Valek, Timothy R., Brajtford, Dan, Brown, Marc R., Gunning, Thomas C., Paulsen, A. William, Ramsay, Michael A. E.: Effect of Intraoperative Low-dose Dopamine on Renal Function in Liver Transplant Recipients, 571
- Syrov, George, *see* Bashein, G.
- Szlam, Fania, *see* Bailey, James M.

T

- Takaori, Masuhiki, *see* Fujita, Yoshihisa
- Tanaka, Atsuko, *see* Nishino, Takashi
- Tanaka, Osamu, *see* Maekawa, Nobuhiko
- Tang, Timothy K. K., *see* Archer, David P.
- Tanigawa, Koichi, Inoue, Yoshitaka, Iwata, Sadayuki: Reply, 919
- Tarver, Stephen D., *see* Streisand, James B.
- Tassonyi, Edomer, *see* Borgeat, Alain
- Taswell, Carl, *see* Stemp, Leo I.
- Taylor, Carol L., *see* Prough, Donald S.
- Taylor, Robert H., Lerman, Jerrold: Minimum Alveolar Concentration of Desflurane and Hemodynamic Responses in Neonates, Infants, and Children, 975
- Teng, Ching-Leou C., *see* Yang, Victor C.
- Ternberg, Jessie L., *see* Gunter, Joel B.; *also see* Riegler, Elaine V.
- Thisted, Ronald A., *see* Lutner, Rachel E.
- Thomas, Chinamma, *see* Hoffman, William E.
- Thomasson, Ronnie, *see* Luttrupp, Hans-Henrik
- Thompson, Chris S., *see* Sipes, Susan L.
- Thomson, Ian R., Bowering, John B., Hudson, Robert J., Frai, Michael A., Rosenbloom, Morley: A Comparison of Desflurane and Isoflurane in Patients Undergoing Coronary Artery Surgery, 776
- Till, Gerd O., *see* Yang, Victor C.
- Tinker, John H., *see* Hindman, Bradley J.
- Tinklenberg, Julie, *see* Guo, Tian-Zhi
- Tobias, Joseph D., Furman, Wayne L.: Anesthetic Considerations in Patients Receiving Colony-stimulating Factors (G-CSF and GM-CSF), 536
- Todd, Michael M., *see* Hindman, Bradley J.
- Torres, Antoni, *see* Gea, Joaquim
- Traystman, Richard J., *see* Berkowitz, Ivor D.
- Tremper, Kevin K., *see* Barker, Steven J.; *also see* Lee, Steven
- Triantafyllou, Anastasios, *see* Heerdt, Paul M.
- Tripuraneni, Ravikumar, *see* Palmisano, Barbara W.



- Troianos, Christopher A., Savino, Joseph S., Weiss, Richard L.: Transesophageal Echocardiographic Diagnosis of Aortic Dissection during Cardiac Surgery, 149
- Troianos, Christopher A., *see* Savino, Joseph S.
- Truog, Robert D.: Reply, 710
- Tseng, C-C., *see* Albertson, T. E.
- Tuominen, Marjatta K., Pere, Pertti, Rosenberg, Per H.: Unintentional Arterial Catheterization and Bupivacaine Toxicity Associated with Continuous Interscalene Brachial Plexus Block, 356
- Turner, Lawrence A., *see* Laszlo, Adam

## U

- Uchida, Morio, *see* Asai, Takashi
- Ueda, Mitsuo, *see* Kemmotsu, Osamu
- Urban, Michael K., *see* Gordon, Michael A.

## V

- Vaccarino, Anthony L., *see* Katz, Joel
- Valek, Timothy R., *see* Swygert, Thomas H.
- VanRiper, Daniel F., *see* Horrow, Jan C.
- VanZundert, A. A. J., *see* Korsten, H. H. M.
- Varvel, John R., *see* Streisand, James B.
- Vergnaud, Marie-Claude, *see* Laroche, Dominique
- Veyckemans, Francis A., *see* Baele, Philippe L.
- Viars, Pierre, *see* Baron, Jean-François; *also see* Rouby, Jean-Jacques
- Vicaut, Eric, *see* Rouby, Jean-Jacques
- Vincent, Robert D., *see* Sipes, Susan L.
- Virtusio, Lourdes, *see* Lee, Tai-Shion
- Vodinh, Jocelyne, *see* Rostaing, Sylvie
- Vogel, Wendy, *see* Crone, Lesley-Ann L.

## W

- Wagner, Peter D., *see* Gea, Joaquim
- Wain, John C., Jr., *see* Fratacci, Marie-Dominique
- Wakefield, Thomas W., *see* Yang, Victor C.
- Wakerlin, George E., Jr., Benson, Gail V., Pearl, Ronald G.: A Thromboxane Analog Increases Pulmonary Capillary Pressure but Not Permeability in the Perfused Rabbit Lung, 475
- Waldman, Steven D.: Epidural Abscess Associated with Epidural Catheterization, 708
- Wallace, Donald, *see* Pennant, John H.
- Wallace, Donald H., *see* Pennant, John H.
- Waltier, David C.: Reply, 377

- Warfield, Carol A.: Manual of Pain Management, 926
- Warfield, Carol A., *see* Connelly, Michael
- Wartier, David C., *see* Kenny, Dermot; *also see* Schmeling, William T.
- Warner, David O., *see* Sayiner, Abdullah
- Washington, Regina'd, *see* Morrison, John E., Jr.
- Watcha, Mehernoor F., Simeon, Rudy M., White, Paul F., Stevens, Julia L.: Effect of Propofol on the Incidence of Postoperative Vomiting after Strabismus Surgery in Pediatric Outpatients, 204
- Wei, Jeng, *see* Chou, Yuan-Hwa
- Weiner, Carl P., *see* Sipes, Susan L.
- Weiss, Richard, *see* Savino, Joseph S.
- Weiss, Richard L., *see* Troianos, Christopher A.
- Weiss, Stuart J., *see* Cheung, Albert T.
- Weller, Robert S., *see* Gross, Jeffrey B.
- Werner, Christian, *see* Hoffman, William E.
- Werner, Olof, *see* Luttrupp, Hans-Henrik
- Westrin, Per: Reply, 550
- Whalen, Francis, *see* Cohen, Shaul
- White, David A., *see* Fung, Dennis L.; *also see* Moore, Peter G.
- White, Paul F., *see* Hemelrijck, Jan Van; *also see* Hirsch, Irl B.; Watcha, Mehernoor F.
- Whitley, John M., *see* Prough, Donald S.
- Whitten, Charles W., Latson, Terry W., Cochran, Richard P., Elmore, Jeffrey C., Griffin, James D.: ST-segment Elevation during Cardiac Electrophysiologic Surgery, 161
- Whitten, Charles W., *see* Allison, Paul M.
- Wieloch, Tadeusz, *see* Nellgård, Bengt
- Wienczek, Jeff G., *see* Aronson, Solomon
- Wilde, Dixon W., Knight, Paul R., Sheth, Neha, Williams, Bruce A.: Halothane Alters Control of Intracellular  $Ca^{2+}$  Mobilization in Single Rat Ventricular Myocytes, 1075
- Wilder-Smith, Oliver, *see* Borgeat, Alain
- Wild, Lorie, *see* Ready, L. Brian
- Williams, Bruce A., *see* Wilde, Dixon W.
- Wilton, Niall C. T.: Aids for Fiberoptically Guided Intubation in Children, 549
- Wine, Rodger, *see* Dallen, Larry T.
- Wingard, Daniel F.: Glycopyrrrolate and the Central Anticholinergic Syndrome, 1125
- Winnock, S., *see* Janvier, G.
- Winter, Dean C., *see* Kemmotsu, Osamu
- Wissler, Richard N., *see* Gravenstein, Nikolaus
- Woelck, Harvey J., Rusy, Ben F., Atlee, John L., III: Comparison of Logdose and Bracket Protocols for Determination of Epinephrine

- Arrhythmia Thresholds in Dogs Anesthetized with Thiopental-Halothane, 884
- Wood, Alastair J. J., *see* Deegan, Robert
- Woodley, Scott J., *see* Savola, Maarit K. T.
- Wood, Margaret: Plasma Binding and Limitation of Drug Access to Site of Action, 721
- Wood, Margaret, *see* Deegan, Robert
- Worton, Ronald G., *see* MacKenzie, Alex E.
- Wright, A. J., *see* Defalque, Ray J.

## Y

- Yaksh, Tony L., *see* Yamamoto, Tatsuo
- Yaku, Hideaki, *see* Mikawa, Katsuya
- Yamamoto, Tatsuo, Yaksh, Tony L.: Spinal Pharmacology of Thermal Hyperesthesia Induced by Incomplete Ligation of Sciatic Nerve: I. Opioid and Nonopioid Receptors, 817
- Yamamura, Takeyasu, *see* Kemmotsu, Osamu; *also see* Otsuka, Hiroshi
- Yamashita, Taku, *see* Hatanaka, Tetsuo
- Yamatodani, Atsushi, *see* Hayashi, Yukio; *also see* Kamibayashi, Takahiko
- Yang, Victor C., Port, Friedrich K., Kim, Jae-Seung, Teng, Ching-Leou C., Till, Gerd O., Wakefield, Thomas W.: The Use of Immobilized Protamine in Removing Heparin and Preventing Protamine-induced Complications during Extracorporeal Blood Circulation, 288
- Yaster, Myron: *Smith's Anesthesia for Infants and Children*, Fifth Edition, edited by Etsuro K. Motoyama and Peter J. Davis, 1129
- Yeh, Alice, *see* Spears, Robert S., Jr.
- Yoshitake, Jun-ichi, *see* Akata, Takashi
- Yoshiya, Ikuto, *see* Hayashi, Yukio; *also see* Kamibayashi, Takahiko

## Z

- Zacher, Allan N., Zornow, Mark H., Evans, George: Drug Contamination from Opening Glass Ampules, 893
- Zaloga, Gary P., *see* Butterworth, John F., IV; *also see* Robertie, Paul G.
- Zapol, Warren M.: Reply, 547
- Zapol, Warren M., *see* Fratacci, Marie-Dominique
- Zaslavsky, Alan, *see* Dershwitz, Mark
- Zbinden, A. M., Hutmacher, M.: More on Standardized Alarms, 1125
- Zickmann, Bernfried, *see* Boldt, Joachim
- Zornow, Mark H., *see* Zacher, Allan N.
- Zwass, Maurice S., *see* Spears, Robert S., Jr.

